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The
CHEMIST AND DRUGGIST
for RETAILER - WHOLESALER - MANUFACTURER

SEPTEMBER 18, 1948

B. B. & Co LTD

CALLING ALL CHEMISTS

All Chemists should call
at our STAND No 72 at

THE CHEMISTS' EXHIBITION

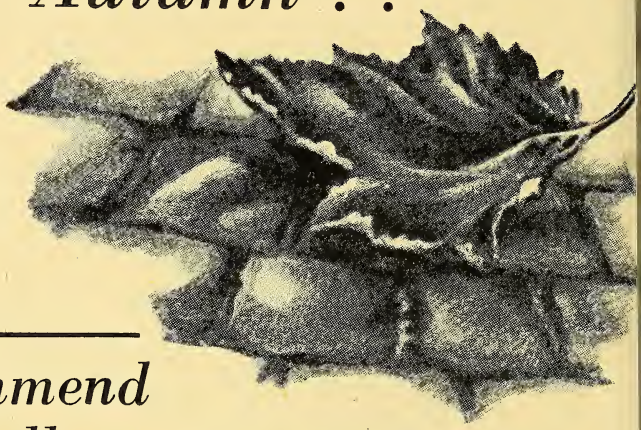
The Central Hall, Westminster
LONDON
S.W.1

Sept., 20—24, 1948

BURGOYNE BURBIDGES
Established 1741. & COMPANY LIMITED. LONDON. E.6

Index to Advertisers pp. 5 & 6

For the Autumn . .



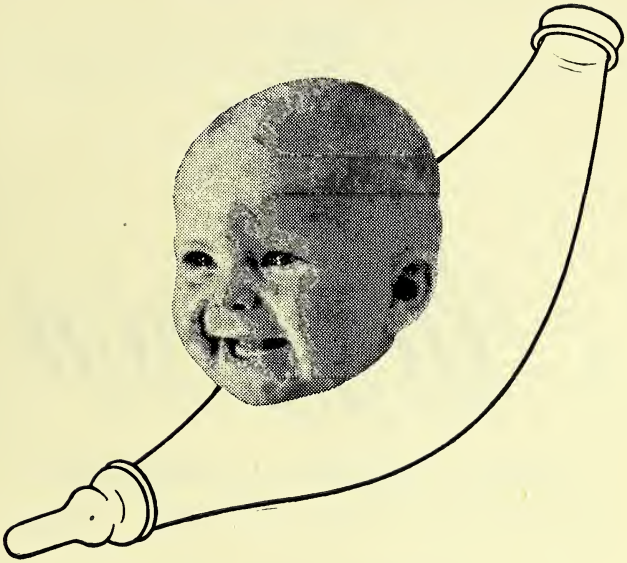
Recommend and Sell **PARKE-DAVIS** *product*

- *Their quality is unsurpassed*
- *They provide worth-while profits*
- *The public believes in them*
- *They ensure satisfied customers*
- *They bring results and ensure goodwill*
- *There are some attractive* **BONUS TERMS** *available*

Send to Hounslow for particulars or ask your Parke-Da representative.

Parke, Davis & Co., **HOUNSLOW, MIDDLESE**

Inc., U.S.A. Liability Ltd.



IDDEN DANGER OF INFECTED FEEDING BOTTLES...

ey may *look* clean and *still* be contaminated
d thus be a source of gastric infection
ckness and diarrhœa). Encourage mothers
protect their babies by sterilizing both
ttle and teats the MILTON way,
hich is safe, sure, simple and economical.
ou can sell an extra bottle of MILTON
th every feeding bottle or teat.

THE NAME BEHIND THE CHEMIST FOR OVER A CENTURY AND A HALF

THE HOUSE OF

Meggeson

EXTEND A CORDIAL INVITATION
TO PHARMACISTS TO VISIT THEIR

Stand No. 65

AT THE CHEMISTS' EXHIBITION, CENTRAL HALL, WESTMINSTER, SEPT. 20 to 24th, ON WHICH WILL BE EXHIBITED, IN ADDITION TO THE WELL-KNOWN *MEGGEZONES* AND *MEGGESON BISMUTH DYSPEPSIA TABLETS*, A NUMBER OF NEW PHARMACEUTICAL PREPARATIONS INCLUDING *CHILDREN'S MEGGEZONES* AND *MEGGESON VAPOCREME RUB*, AS WELL AS THE ORIGINAL *RED-BUFF* SERIES OF PASTILLES, NOW RE-INTRODUCED.

Meggeson & Co. Ltd., London, S.E.16

Prevention

is better than cure

DURING THE COMING WINTER season our National Press Advertising will again stress the importance of resisting colds and influenza by taking Crookes Halibut Oil Capsules regularly. By stocking and recommending Crookes Halibut Oil and Capsules the discriminating pharmacist will be able to relieve the additional strain imposed on himself and the doctors by the winter months, and enable both professions to give of their best to those whose illnesses merit skilled attention.

CROOKES HALIBUT OIL

THE CROOKES LABORATORIES LIMITED
PARK ROYAL LONDON N.W.10

IN MATTERS CONCERNING FEMININE HYGIENE.

SHE LOOKS TO *you* FOR PROFESSIONAL ADVICE

The responsibility to give professional advice when called upon has placed pharmacy in a position of high honour and esteem. It is a service especially valued by women particularly in matters exclusively feminine. When it is a question of family limitation it is always wise to suggest Rendells. Three generations in all parts of the world have proved the original full strength formula completely dependable and recent clinical tests confirm there is no safer or better contraceptive.

Rendells

PRODUCTS FOR FEMININE HYGIENE

W. J. RENDELL LTD · HARDWICK HOUSE · 161-5 ROSEBERY AVENUE · LONDON E.C.1

INDEX TO ADVERTISERS

glo-American Distributing Co., Ltd. xxii
glo-French Drug Co., Ltd. Leader Page
rola, Ltd. 14
nour & Co., Ltd. 10
nidar, Ltd. xxx
insons 32

nes, M. H. .....Col. Supp.
r Honey 13
tson, Clark & Co., Ltd.... iv
l, John, Hills & Lucas, td. .....Leader Page
netts (Oldham), Ltd. viii
dle, Sawyer & Co., Ltd. Cover iv
ig, J., & Sons. Ltd..... xiv
ckwell, Hayes & Co., Ltd. xxii
n Doral, Ltd. xxvi
ish Thomson-Houston Co., td. xv
ok, Parker & Co., Ltd. ... xxx
nn Mnfg. Co., Ltd. 28
goyne Burbidges & Co., td. .....Front Cover
rough, James, Ltd. Leader Page
roughs Wellcome & Co. 9, 35

nber Carton Press xxxvi
nilatone Shampoos 13
non Rubber Manufacrers, Ltd. 5
negie Chemicals (Welwyn), td. 18
on & Son xxii

Chemical Compounds, Ltd.... 26
Christy, Thomas & Co., Ltd. xi
Continental Laboratories, Ltd. xxxiv
Corwin, S., & Co., Ltd. ...xxxvi
Cox, Arthur H., & Co., Ltd. 8
Crompton Parkinson, Ltd. ... vii
Crookes Laboratories, Ltd. ... 3
Crosskill, C. R., & Sons x
Cumming, J. W., & Son ... ii
Cyclo Chemicals, Ltd. xiii

Dae Health Laboratories, Ltd. xxix
Dales Aspirin & Tableting Co. 15
Dangoor, N. S., Ltd. 30
Daniel, Richard, & Son, Ltd. 13
Domestos, Ltd. xv
Dominion Steel Corporation, Ltd. xii

Edwards Surgical Supplies ...xxxvi
Electron (Contractors), Ltd. xxxvi
Elesco Mnfg. Co., Ltd. xxxvi
Ellis, J. E., Ltd. 12

Favell, T. J., & Co., Ltd. ... xiv
Fecher, M. J., Ltd. 6
Fennings, A. .....Leader Page
Ferris & Co., Ltd. 15
Ferryman, Herbert, Ltd. ...xxxiv
Freeman, William & Co., Ltd. .....xviii, xix
Fryer & Co. (Nelson), Ltd. 10
Fulford, C. E., Ltd. 28

Genatosan, Ltd. 27
General Electric Co., Ltd. ... xxi
Gibson, Robert & Sons, Ltd. 24
Gnome Photographic Products, Ltd. xxx
Gould, N. & M., Ltd. Leader Page
Greyer, Brecheisen & Co., Ltd. vi

Haetem, Ltd. 10
Hall, Forster & Co., Ltd. ... 14
Hampshire, F. W., & Co., Ltd. 29
Harris, P., & Co. xxvi
Henry & Leigh, Ltd. xxxvi
Herts Pharmaceuticals, Ltd.... 17
Hewlett, C. J., & Son, Ltd. 14
Hinders, Ltd. x
Hirst, Stuart, Ltd. ...Leader Page
Howard, Lloyd & Co., Ltd. xxxii
Howards & Sons, Ltd. i

Imperial Chemical (Pharmaceuticals), Ltd. xvii
Institute of Chemists-Opticians .....Col. Supp.
International Chemical Co., Ltd. xxvii
Interseas Trading, Ltd. x

Jackson, G., & Sons, Ltd. ... 22
Jarvie, Hugh & Co., Ltd. ... v
Jeffreys, Miller & Co., Ltd. 15
Jeyes Sanitary Compounds... xxiv
Johnson & Johnson (G.B.), Ltd. xxxi

(*continued overleaf*)

All Cannon Rubber products are of the highest quality available today. Both at home and overseas these products have become popular because they are manufactured to most exacting standards. Wherever the CANNON trade mark appears, there you will find the best that is to be had. (From your regular Wholesaler only.)

uality Goods by

kers of 'Modern' and 'Wellborn' ts, The 'Dolphin' and 'Ripple' Water Bottles, 'Diver' and 'Rosette' Bathing Caps.

CANNON RUBBER

E CANNON RUBBER MANUFACTURERS LIMITED · LONDON · N.17

INDEX (cont.)

Keeling & Walker, Ltd. ii

Kenrosa, Ltd. xxviii
Kent, G. B., & Sons, Ltd. ... 22
King, R. S. xxiv

Latex Surgical Products, Ltd. 19
Leigh & Sons Metal Works... xii
Lennon, Ltd. ix
Lodge, Robin, Ltd. ix
Lusty's Natural Products Co. 24

Macdonald & Son, Ltd. 34
Mandleberg's ix
Marks, Leslie & Co., Ltd. xxviii
Mather, Wm., Ltd. xiii
Matthews & Wilson, Ltd. ... 22
Maw, S., Son & Sons, Ltd. 11
Meggeson & Co., Ltd. 2
Milton Antiseptic, Ltd. 1
Morgans Pomade Co., Ltd. xxx
Myers, S. I. vi

Napp, H. R., Ltd. ...Leader Page
National Association of Opticians 15
Neill, James, & Co. (Sheffield), Ltd. xii
North British Rubber Co., Ltd. xiii

Ormerod Engineers, Ltd. ii
Orridge & Co. .....Col. Supp.
Oxo, Ltd. 26

Paine of Lynn xxxvi
Paragon (Grief & Co.) xxxiii

Parke, Davis & Co. .....Cover ii
Pascall Engineering Co., Ltd. viii
Perico Products xi
Pharmax, Ltd. xxviii
Potter & Clarke, Ltd. 33
Prestoband xv
Progress Shaving Brush Co., Ltd. xxii

Raywarp Testiles, Ltd. 24
Reed Bros. (Engineering), Ltd. x
Reed, A. Elder & Co., Ltd. iv
Rendell, W. J., Ltd. 4
Renipas Chemical Co., Ltd.... 8
Reuter, R. J., Co., Ltd. 26
Riley, J., & Sons, Ltd. viii
Rooney, Robert A., & Sons, Ltd. iv

Salem (Pulverised Tragacanth), Ltd. ii
Salter, George, & Co., Ltd. vi
Samuelson, P., & Co. ii
Scott, A. & R., Ltd. xxxv
Scott & Turner, Ltd. 12
Scurr, C. A. xxxvi
Sessions, Wm., Ltd....Leader Page
Seven O'clock Razor Blades... xvi
Sharp & Dohme, Ltd. 16
Shaw, Robert, & Co., Ltd. ... 28
Siemens Electric Lamps, Ltd. v
Sigal, S., & Co., Ltd. xxxiv
Simpkin, A. L., & Co., Ltd. xxvi
Smith, J. M., & Co. (London), Ltd. 14
Southon Laboratories, Ltd. ... 15

Sponcel, Ltd. .....
Stekel, Edmund .....
Sumner, R., & Co., Ltd. .
Surgical Hosiery Co., Ltd. .
Sutton, W., & Co. (London Ltd. .....

Tampax, Ltd. .....
Thompson & Capper Whole sale, Ltd. .....
Townsend, J., & Sons, Ltd

Veno Drug Co., Ltd. .....
Vigon, J. J., & Co. .....
Vines Brocrin, Ltd. .....
Virdox .....
Virginia's Hollywood Prep (1936), Ltd. .....

Wafer Razor, The, Co., Ltd
Walker, W. & F., Ltd. .....
Walton, T. H., & Co., Ltd.
Wander, A., Ltd. .....
Wallace (Pharmaceutical Pro ducts), Ltd. .....
Warrick Bros., Ltd. .....
Webster, Isaac, & Sons, Ltd
Westminster Laboratories Ltd. .....
Whiffen & Sons, Ltd. ...Cov
Wilson & Mansfield, Ltd. ..
Wilsons (Bradford), Ltd. .....
Woolf, Lewis, Ltd. .....
Wright, Layman & Umney Ltd. .....

Zems, Ltd. .....
Zimmermann, C., & Co., Ltd

FROM STOCK

The "SAVE TIME" STYPTIC PENCIL

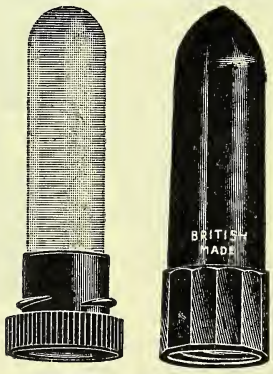


Fig. 545

In Plastic Case. One dozen in show box
5/4 dzn. (Tax included)

CORN CURE BOTTLES

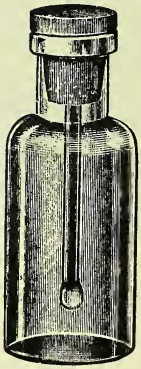


Fig. 462

2 drm. Amber only Composition Top Corks
FITTED WITH GLASS RODS 3/- dzn.
" " BRUSHES 4/3 "

From all leading wholesalers, in case of difficulty apply to us direct

Actual Makers: M. J. FECHER LTD.
121 HIGH STREET, SLOUGH, BUCKS
Telephone—SLOUGH 21864 *Established 1891*

VENO'S

VENO'S LIGHTNING COUGH MIXTURE
THE IDEAL FAMILY REMEDY
LARGE SIZE
PROPRIETARY
VENO DRUG CO. LTD
MANCHESTER 16

P.A.T.A

FOR YOUR CUSTOMERS' CONVENIENCE
A LARGER SIZE AT 2/6

In response to frequent suggestions from our customers, we have assumed the production of a larger size of our nationally advertised, quick selling, Veno's Cough Mixture. Two sizes are now available, at 1/6d. and 2/6d. Your requirements of both sizes can be included in the Combined £3 order for Veno Products, on which qualified chemists receive 10% discount for display plus 2½% for cash in 30 days. Your turnover can be increased if you order and display this attractively priced new size Veno's Cough Mixture.

SMALL SIZE	
LIST	RETAIL*
11/6 *per doz.*	1/6 *per bottle*
LARGE SIZE	
LIST	RETAIL*
18/6 *per doz.*	2/6 *per bottle*

**inc. Tax*

Veno Drug Co. Ltd., Manchester

NEW PRODUCTS

particularly in PILL and TABLET form

The 'COX' organisation is always available for consultation about new Pharmaceutical products for Home and Export markets.

MANUFACTURING

Long experience and highly efficient and specialised facilities are placed at your disposal.

PACKAGING

Our artists are at your service, and a fully equipped printing department provides for every requirement of the trade.

ARTHUR H. COX & CO., LTD. BRIGHTON, 7

YOUR PROFIT 80% ON COST

Made possible by giving to the trade the Press appropriation. This special Counter Display Box will attract new users to Renipas, unequalled for speedy relief of Rheumatism, Headaches, Gout, Toothache, Lumbago, Sciatica, Neuralgia and Lack of Sleep. These boxes are available, as an advertising scheme, until Dec. 31st, and cost 5/1½ plus 1/8½ P. Tax (6/10 nett).

The return is 11/-, making a profit of 80% on cost.

The box, 3" x 4" x 1" contains 24 x 5½d. packets of two powders. Renipas Powders as sold for over 40 years in boxes of 8 for 1/7, 24 for 3/9 and 96 for 13/7 incl. Tax, are stocked by all Wholesalers.

Orders for Counter Display Boxes, accompanied by a remittance, supplied only direct from the manufacturers.

RENIPAS CHEMICAL CO. LTD.,
69 Fleet Street, London, E.C.4

Fine CHEMICALS

Burroughs Wellcome & Co. offer a selected range of fine chemicals on particularly advantageous terms to bulk purchasers.

Each is the product of long manufacturing experience and strict analytical control, and represents the highest attainable standards of quality and purity. Further details and quotations will be supplied on application to Bulk Chemicals Section, 193, Euston Road, N.W.1.

ADRENALINE
ADRENALINE BITARTRATE
BENZAMINE HYDROCHLORIDE
CARBACHOL
CINCHOPHEN
EMETINE HYDROCHLORIDE
ERGOMETRINE
ERGOMETRINE ACID MALEATE
ERGOTOXINE ETHANESULPHONATE
HISTIDINE MONOHYDROCHLORIDE
HOMATROPINE HYDROBROMIDE
HYOSCINE HYDROBROMIDE
PETHIDINE HYDROCHLORIDE
STILBŒSTROL
STILBŒSTROL DIPROPIONATE
STROPHANTHIN-G (Ouabain)
K-STROPHANTHIN
SULPHAGUANIDINE
THYROXINE-SODIUM
d-TUBOCURARINE CHLORIDE

BURROUGHS WELLCOME & CO.

(THE WELLCOME FOUNDATION LTD.) **LONDON**

Associated Houses:

NEW YORK MONTREAL SYDNEY CAPE TOWN BOMBAY SHANGHAI BUENOS AIRES CAIRO

GLANOID

FLAVOURED

ESSENCE OF

RENNET

RASPBERRY, STRAWBERRY,
LEMON, ORANGE,
VANILLA

1 OUNCE BOTTLES
sufficient for 8 pints of Junket

RETAIL
2/3
PER BOTTLE

SUPPLIES AVAILABLE

WITH ONE OR TWO EXCEPTIONS THE RETAILER'S DISCOUNT ON ARMOUR MEDICINAL PRODUCTS IS 33⅓%.

THE
Armour Laboratories
(ARMOUR AND COMPANY LTD)
LINDSEY STREET · LONDON · E·C·1
elephone - - CLERKENWELL 9011
elegrams "ARMOSATA-PHONE," LONDON

For cool customers

Victory·V

GUMS & LOZENGES

FRYER & CO. (Nelson) LTD., Nelson, La

POWDER PUFFS
Finest-Quality

the sign for H quality products
MADE IN ENGLAND

'FABULO'
The well known Metal Curlers
Both lines our own manufacture

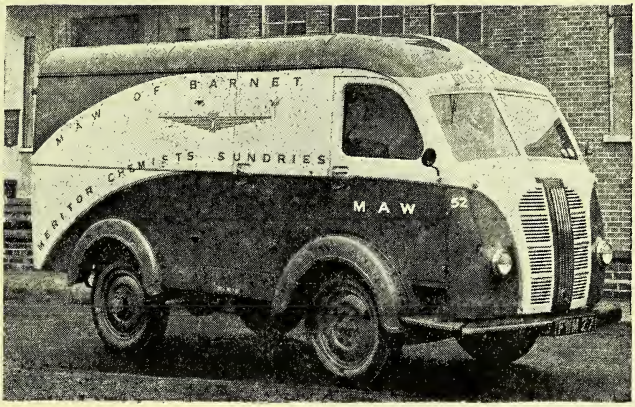
TWEEZERS, NAIL FILES, SCISSORS (All kinds), TOOTH BRUSHES, NAIL BRUSHES, ALL KINDS OF COMBS, HAIR GRIPS and HAIR NETS, BEST QUALITY. LACQUER, REMOVER, RUBBER GLOVES, etc., etc.

Representatives required on commission basis, for various areas.

Ask for Price List
HAETAM LTD
63 CORPORATION STREET, MANCHESTER, 4

MAW OF BARNET

FIRST WITH THE BEST SUNDRIES!



MAW'S MOTOR DELIVERY SERVICE

- REGULAR DELIVERIES IN THE GREATER LONDON AREA
- MANY COUNTRY SERVICES (Full particulars on request)

OFFERS YOU PROMPT DESPATCH OF

MERITOR TOOTHBRUSHES
MERITOR D.D.T. ANTIMOTH
MERITOR CHEMISTS' SUNDRIES
MAW'S SURGICAL DRESSINGS
RAY THERAPY EQUIPMENT
PROPRIETARIES–AGENCY LINES

S. MAW, SON & SONS LTD
ALDERSGATE HOUSE : BARNET : HERTS

URGENT

Empty ANDREWS cases *please*

For some time past we have experienced considerable difficulty in despatching supplies of Andrews because of the acute shortage of cases.

The position is NOW SERIOUS

and unless customers holding Andrews empty cases return them immediately a hold-up in deliveries will result. Your co-operation is requested. Postage or carriage will be credited.

HOW TO SEND

Fold cases flat, flaps inside, tie up. Ready addressed gummed labels obtainable from our travellers, or direct from us. Up to 15 lbs., by post (*state cost on label*). Over 15 lbs., by rail, c/fwd (*or state cost on label*).

ANDREWS

SCOTT & TURNER, LTD.
Andrews House, Newcastle-on-Tyne, 2
T.11.

Here is the larger of th two packs of Daisy Tablets which may becom more popular than the neat and trim 4d. size You will like the new 1/5 pack. A really goo formula (A.P.C. with Piperine—perhaps the bes of all A.P.C. combinations), a first-rate pack— a popular price and generous profit.

UNIVERSALLY ADVERTISED

Limited supplies of this handsome display carto are still available and will appeal to the Chemis who seeks to establish the 1/5 Price Standard Order from your Wholesaler: 1 Display carto (1 dozen), 1/5. Daisy Tablets at 9/6, plus Tax (P.A.T.A.)

J. E. ELLIS LTD., HORSFORTH, LEEDS

"Insist on the best"

PURE TURKISH LICORICE JUICE

"LICOREX" Brand

FLAKES—
BLOCKS——
STICKS

Absolute Purity
Highest Glycyrrhizine Content

ORDER FROM YOUR USUAL WHOLESALER

Richard Daniel & Son Ltd

PROPRIETARIES
SUNDRIES DRUGS
TABLETS & PILLS

FOR CHEMISTS

Manufacturing Chemists

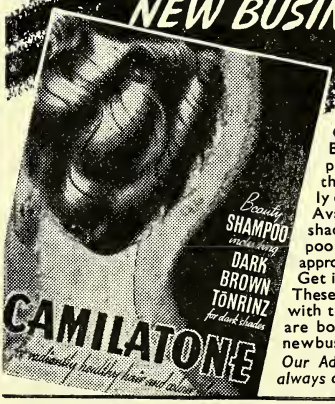
Head Office & Works Mansfield Road Derby Telephone 4266 (3 lines) Branch Warehouse Grosvenor St. Ashton-under-Lyne Telephone 2816 (2 lines)

BEAR-BRAND HONEY
noted for
Purity & Quality

As direct importers from all the main Honey-producing Countries of the World, we can supply Standard Grades of the finest Honey for all Manufacturing purposes.

L. GARVIN & CO. LTD.
ISLEWORTH
MIDDLESEX

NEW PACKS!
NEW LOOK!
NEW BUSINESS!



Camilatone Beauty Shampoos now sell in these attractively designed packs. Available in six shades, each shampoo includes the appropriate Tönrinz. Get in stocks now! These new packs with their new look are bound to attract new business!

Our Advisory Dept. is always at your service.

CAMILATONE LTD. WELSH HARP LONDON N.W.9.

PREPARING FOR THE WINTER . . . .

The demand for counter lines will still be there. Satisfy your customers need for a sedative cough linctus by recommending

TUSSI-RUBE

CONCENTRATED LINCTUS

4 oz. SIZE COST 18/- doz. plus 6/- P.Tax. RETAIL 2/3 plus 6d. P.Tax.

Through your usual wholesaler or direct from:

C. J. HEWLETT & SON LTD.,
35-43 CHARLOTTE ROAD, LONDON, E.C.2
also at **48 CARSTAIRS STREET, GLASGOW, S.E.**

A good complexion
IS EVERY WOMAN'S DESIRE

APROLA preparations are now being extensively advertised . . . they are going to be in big demand. Put a good complexion on your profits by stocking

APROLA *Beauty* *PREPARATIONS*

Prices incl. P. Tax	Trade.	Retail.
Aprola Facepak		
Tubes	15/10 doz.	1/7½ each
Powder	7/7 doz.	10d. each
Soap	95/9 gross	10½d. each

APROLA LIMITED
28 KENNEDY STREET, MANCHESTR 2

ELDON VAPORISERS

For use with FENOLIN FLUID

P.A.T.A.

HALL FORSTER & CO. LTD.,
NEWCASTLE UPON TYNE

"CRUSADE BRAND"
Glycerine Lemon Honey and Ipecacuanha
(with Glucose)

In 3 oz. Bow Panels (Plastic Caps) 8/6d. per dozen plus P.T. 33 1/3%
Retail price 1/6d. per bottle

ORDER YOUR WINTER REQUIREMENTS NOW
ORDERS FOR 1 GROSS LESS 5% DISCOUNT

J. M. SMITH & CO. (LONDON) LTD.,
Camelot St., London, S.E.15

Protection against colds?

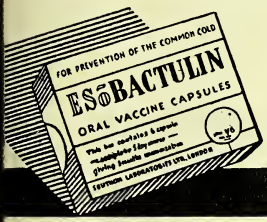
". . . . . ESOBACTULIN is one of the most successful lines I've handled. The course consisting of six capsules taken over five days gives most people three months' immunity from colds.

" Customers come in for a course in September and again in December, just when their resistance is lowest and colds are most prevalent."

8/3 per course inc. P. Tax 33% Trade discount

Supplied through YOUR Wholesaler

Bonus Offer—*13 to the dozen on orders of 1 dozen and over.*



A product of

SOUTHON LABORATORIES LIMITED
UPPER RICHMOND ROAD, LONDON, S.W.15

ESOBACTULIN

protection against colds

N.A.O. EXAMINATIONS
Information, Syllabus, Entrance Forms, etc., for the next
FELLOWSHIP and HONOURS DIPLOMAS
May be obtained from The Secretary,
N.A.O., 130 Princes Road, Liverpool, 8.

DRUGS, GALENICALS, PROPRIETARIES
Makers of 'Vitasac'
R. SUMNER & CO. LTD.
HANOVER STREET LIVERPOOL, 1

MILLAMALT

ole Manufacturers: JEFFREYS, MILLER & CO. LTD (A6500 I.U., D400 I.U. PER FL. OZ.)
cyland Mills, Wigan. *London Dept.* 19 Brookside Rd. N

Malt Extract with added Natural Vitamins

Two Useful Products

SYVITONE Vitamin Tonic Syrup
Provides in palatable and assimilable form, the vitamins of Cod Liver Oil.

NIGROIDS For Throat & Voice

Prepared in the laboratories of
FERRIS & CO LTD BRISTOL

Compressed TABLET SERVICE
WHOLESALE & EXPORT
Reasonable estimates.
Clients' own material operated if desired.

The . . .
DALES ASPIRIN AND TABLETING CO.
Barrows Lane, STEETON, Yorks.

Ask

our Representative★

for the

NEW BONUS TERMS

(effective until October 31st 1948)

on

'VIRVINA'

★ *or write to us for details*

SHARP & DOHME

SHARP & DOHME LIMITED HODDESDON HERTS

To help YOU sell more

NIVEA CREME

No Chemist's counter should be without this extra sale and profit-making display piece. The Nivea "Serve Yourself" unit is easily fixed on the counter by its adhesive base. Customers serve themselves and immediately a new pack falls into position ready for your next customer. Apply for your new Nivea "Serve Yourself" unit now by filling and posting the coupon below. Nivea Creme is recommended by the medical profession. It is the ideal cream for all home and outdoor use—housework, babies, sun, winds and weather.

Further Nivea Sales Aids

1. A liberal supply of attractive colour show-cards and display material is available. Fill in coupon below.
2. A Sales Manual has been produced. It tells you and your staff all about Nivea Creme and the many uses for which you can recommend it. Fill in the coupon below.
3. Frequent advertisements are appearing in the National dailies and National Sunday newspapers.
4. There is a programme of full colour advertisements in Women's magazines.

Please send me (a) "Serve Yourself" Unit (complete with ...doz Nivea Creme No. 368 at 10/10d per dozen). (b) Parcel of assorted showcards. (c) .....copies of Nivea Sales Manual.

Name .....

Address .....

.....

Delete items not required and post to:—
Herts Pharmaceuticals Ltd.,
Welwyn Garden City.
Phone Welwyn Garden 3333

(C43)

Add this salesman to your staff

HERTS PHARMACEUTICALS LTD. Welwyn Garden City. Herts-Welwyn Garden 3333

CINCHONA

Quinine and Salts

(From Cinchona Bark)

QUININE SULPHATE B.P. 1948
IS NOW AVAILABLE

Totaquine

Manufactured at the
GARDEN CITY FACTORY OF

CARNEGIE

QUININE WORKS LTD.

ASSOCIATED WITH CARNEGIE CHEMICALS (WELWYN) LTD.

TELEGRAMS: CARNECHEM, WELWYN GARDEN

WELWYN GARDEN CITY
HERTFORDSHIRE, ENGLAND

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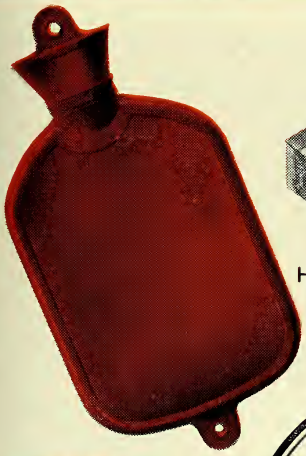
Please note the above is the ONLY address of our Offices, Works and Laboratories

TRANSPARENT
FEEDING BOTTLE TEATS
in one gross cartons



HOT WATER
BOTTLES, TWO SIZES
ATTRACTIVE DESIGNS
Individually tested

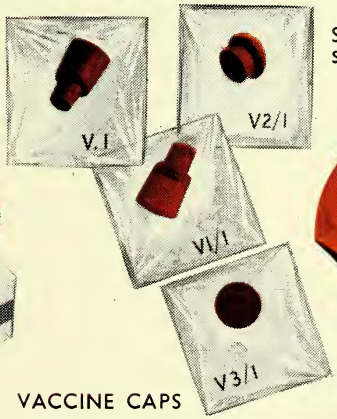
SURGICAL
RUBBER BRUSHES

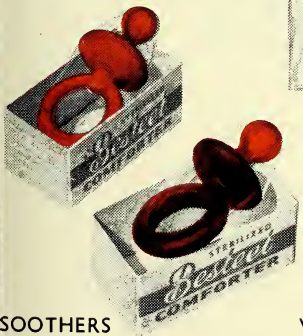
RUBBER GLOVES
FEEDING BOTTLE TEATS
RUBBER HOT WATER BOTTLES
BATHING CAPS, RUBBER BRUSHES
VACCINE CAPS, SOOTHERS, ETC.

All these goods are made from the very best materials. They will give long service under extreme climatic conditions

RUBBER GLOVES

SURGICAL & MEDICAL
GLOVES
Sizes $6\frac{1}{2}$ to 9.
1 oz. to 6 oz. per pair





SOOTHERS
of pure 'Latex' construction

VACCINE CAPS
OF ALL DESCRIPTIONS

BATHING CAPS
in white and attractive colours:
Pink, Sky Blue and Yellow

Latex Surgical Products Ltd.

33/34 RODNEY STREET, LONDON, N.1, ENGLAND. TERminus 7824

Why you should Sell

WANDER

BRAND

MALT & COD LIVER OIL

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BECAUSE of its unsurpassed quality and its ready acceptance by the public, Wander Brand Malt Extract and Cod Liver Oil is a product which the pharmacist can recommend with full confidence, and in his own best interests. Wander Brand Malt Extract and Cod Liver Oil is outstanding in its field and its pharmaceutical excellence is recognised by physicians. The Cod Liver Oil used is the best obtainable and the Malt Extract is specially prepared by A. Wander Ltd. who are the leading authorities on its manufacture. These two ingredients are combined in the proportions recognised by the medical profession.

With its attractive appearance and toffee-like flavour, Wander Brand Malt Extract and Cod Liver Oil is thoroughly enjoyed by children and adults.

On the P.A.T.A.

Wholesale Prices: 1 lb. Jars **18/9**; 2 lb. Jars **35/-**
Exempt from Purchase Tax

Retail Prices: 1 lb. Jars **2/1**; 2 lb. Jars **3/11½**

NOTE: Also supplied if required with attractive labels bearing your own name, at the same wholesale prices.

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A. WANDER, LTD.
5 & 7 Albert Hall Mansions
London, S.W.7

CONTAINS NO RUBBER

HYGIENIC • LUXURIOUS • INEXPENSIVE

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VERTISING. A nation-wide campaign commences in ptember, with regular spaces in leading National Weeklies, omen's Journals, etc., etc. It is backed up by hundreds posters in London's Tube Stations and buses.

lling Price: RECTANGULAR 4/7, OVAL 2/9 (Inc. P.T.)

der through your usual wholesaler who will supply attractive owcards for window or counter use—or, in case of difficulty, ite to SPONCEL LTD., WOLDHAM RD., BROMLEY, KENT

C

Now Available!

ORDER NOW WHILST THEY ARE STILL AVAILABLE FOR THE **HOME MARKET**

Behind the "Allure" Perfume Hairbrush is the heavy and sustained advertising at home and abroad which for years has been building up to this moment when, for the present, at least, we can fulfil all your orders.

The "Allure" Perfume Hairbrush is advertised by Showcards on all London Underground trains and on slides in cinemas throughout Great Britain.

Give these brushes prominent display and always show one brush apart as this calls attention to the fact that it is not an ordinary brush.

PRESS ADVERTISEMENTS REGULARLY APPEAR IN

Picture Post
Tatler & Bystander
Punch
Sketch
Vogue
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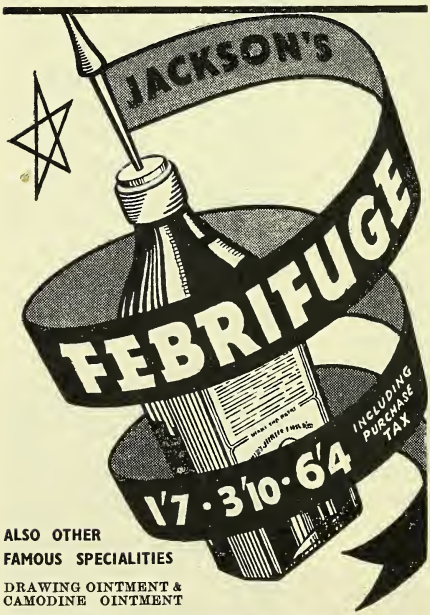
Lady
and many other journals

G. B. KENT & SONS LIMITED

24 OLD BOND STREET : LONDON : W.1

'Phone: Regent 1471/2/3. Tel.: Tricho, Piccy, London

BY APPOINTMENT BRUSHMAKERS



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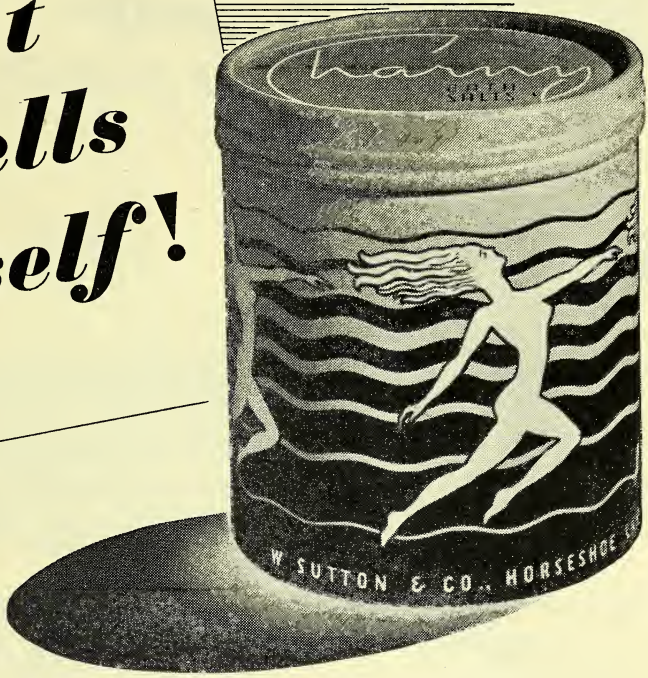
It sells itself!



"CHARNY" Bath Salts packed in Cartons to delight the most fastidious customer.

Greaseproof carton, most attractive colours, Blue and Black designs—no moisture penetration—contents remain crisp and fully perfumed to the last crystal.

Ask our Representative or write for Bonus and Special Christmas Delivery offer.

It's a "SUTTON" *Production*

PRICES:—
2/11 @ 14/- per Dozen.

LONDON & PARIS
charny
BATH SALTS

W. SUTTON & CO.
DRUGGISTS' SUNDRIES LONDON LTD.
HORSESHOE LANE · ENFIELD · MIDDLESEX.
Telephone Enfield 4747 (10 lines). Telegrams: Vinaigrette, Enfield.

A New Hair Netwear Display—ideal for the Chemist's Count

This range of

Raywarp

QUALITY HAIR NETWEAR

provides all your customers Hair Net needs, attractively displayed for easy selection. Individual packing ensures cleanliness. The unit is supplied FREE with order for contents as follows:

¼ gross R 14 Invisible Net
½ gross N 1 Nylon Hair Net
6 only R 7 (Elastic Chinstrap)
6 only R 6 Novelty Slumber
6 only 43 Setting Net Per Doz
6 only B 31 Boudoir Cap Per Doz

1 B 31 on Display Head at part cost. Total price of contents to retailer (Unit FREE) £2 12s. 6d plus purchase tax. Full details of wholesaler's trade and cash discounts available from:

RAYWARP TEXTILES LTD

Alfred Street North, Nottingham. Tel.: 466

It's easy to remember

'MECCA'

COUGH PASTILLES

Retail Price 1/8 per tin incl. tax

ARAB SERIES

ROBERT GIBSON & SONS, LTD.
MANCHESTER & LONDON

Record Breaking Sales

are being made by stockists of HERBALENE, the natural non-habit forming herbal laxative. GENTLE IN ACTION. Cash in on the growing demand and be certain of a large, rapid turnover. Your order will receive our most prompt and careful attention.

HERBALENE (Regd.)

1/6 and 2/6 per packet.
3/8 per tin—Retail Prices.

Send also for particulars of other famous family remedies such as our Nerve, Digestive and Sleeping Tablets, Garlic Perles and Herbal Skin Cream.

Agents still wanted in some areas.

LUSTY'S NATURAL PRODUCTS CO.
Westcliff-on-Sea Essex

Wright's
COAL TAR
ALCUM POWDER

ASORBENT · SOOTHING · PROTECTIVE

ONE OF WRIGHT'S PRODUCTS

per **2/4** tin
including Purchase Tax

BACK TO THEIR PRE-WAR STANDARDS & FORMULÆ
IN SMART RE-DESIGNED SPRINKLER TOP TINS

Wright's
COAL TAR
NURSERY POWDER

ESPECIALLY SOFT & FINE FOR BABY

per **1/8** tin
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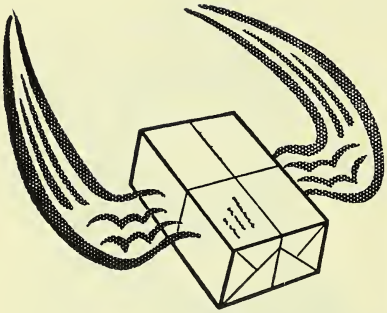
DISPLAY THEM—SELL THEM

WRIGHT LAYMAN & UMNEY LTD · SOUTHWARK · LONDON · S.E.1 · HOP 4021 (10 lines



OXOID Therapeutical Preparations are despatched with unfailing promptness, and reach you with gratifying speed.

This is a service you can rely on; every order is an emergency order.

Write, telephone or wire your instructions.

OXO LIMITED

MEDICAL DEPARTMENT

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TELEPHONE CENTRAL 9781

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and its salts
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BUTYRATES ISOBUTYRATES
CAPROATES PROPIONATES

manufactured by

CHEMICAL COMPOUNDS LIMITED

Aycliffe Trading Estate, Co. Durham
Tel: Aycliffe 3230

Eau de Cologne
and Beauty Aids

MADE IN ENGLAND

all you want—NOW!

R. J. REUTER COMPANY LTD.
SLOUGH

P.A.T.A

Rigorous analytical control throughout manufacture of every tablet of

'GENASPRIN'

is the reason for your customers' invariable satisfaction

RETAIL

28's 1/6½d. inc. tax

50's 2/5½d. ,, ,,

TRADE

10/- tax extra

16/- ,, ,,

10% *discount on £5 parcels.*

The word 'Genasprin' is the registered trade mark of

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Telephone: Loughborough 2922

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C. E. Fulford LTD

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SPECIAL CHEMISTS' EXHIBITION OFFER

BILE BEANS
ZAM-BUK OINTMENT
ZAM-BUK Medicinal CREAM
PEPS TABLETS
ZAMCONES Suppositories
GUY'S TONIC & PILLS
KUTNOW'S SALINE
VEN-YUSA FACE CREAM

ON all direct retail orders of £6 or over received by us between the 20th September and the 31st October, 1948, an additional 5% discount will be allowed over and above the present profitable quantity or display parcel terms accepted by our customers.

This offer refers to all C. E. Fulford products, including PEPS, and we strongly urge you to secure your supplies by ordering your estimated Winter requirements now.

THIS OFFER IS OPEN FROM 20 SEPT TO 31 OCT 1948 ONLY

Johnny Bunny

CHILDRENS COUGH PASTILLES

Retail Price 1/3 INCLUDING TAX

Limited Supplies Available

THE BRYNN MANUFACTURING CO. LTD.
ASHTON-IN-MAKERFIELD
LANCASHIRE

'Surefit'

HAIR NETS FOR LOVELY HEADS

These superfine nets match any tone and hair style and are so finely woven that they are scarcely visible. Yet they give effective protection. "Surefit" hair nets together with "Venus," "Madonna" and "Uneeda" are *now available in unlimited quantities.*

Wholesale and Export.

ROBERT SHAW & Co. Ltd., NOTTINGHAM

Certain people—it's a shame
Make wrong uses of my name
Here's a tip—straight from the stable—
See that ZUBES REGD.
is on the label

Gum Tragacanth

N. S. DANGOOR LTD.
Suppliers to the Industry
PROVINCIAL HOUSE, 98-106, CANNON STREET, LONDON, E.C.4.

THE CHEMISTS' EXHIBITION
The Central Hall, Westminster, London, S.W.
SEPT. 20th to 24th

THOMPSON & CAPPER WHOLESALE LTD.

will be showing at Stand Nos. 7 & 8 the following products :—

MOTHAKS

QUINPHOS **CORNOL**
VARICONES
Q.A. BRAND ASPIRIN TABLETS
SUSTENOID BRAND YEAST TABLETS
COUNTER-PAIN TABLETS
MORNING SALT TABLETS

GOLDEN ARROW Brand SPECIALITIES :—
BISMUTH MAGNESIA TABLETS
IODISED FORMALIN TABLETS
CORN CURE · COUGH SQUARES

COMPRESSED TABLETS

Pharmacists are cordially invited to make themselves known to our representatives on the stand, to inspect the attractive display packages and showcards, and to discuss the various items and terms.

THOMPSON & CAPPER WHOLESALE LTD.
SPEKE HALL ROAD, LIVERPOOL, 19
Telephone: HUNT'S CROSS 1321 Telegrams: 'Sanitas, Liverpool

The new hour-glass waist

This is one of Pierre Pagès delightful drawings for Atkinsons nation-wide advertising under the title "Today in Bond Street."

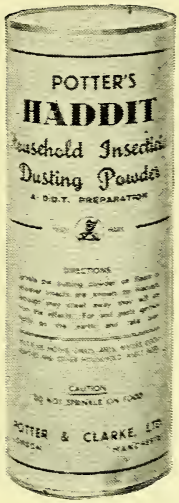
BY APPOINTMENT
PERFUMERS TO H.M. THE KING
J. & E. ATKINSON LTD.

Fashion news is headline news. That is why Atkinsons advertising campaign for their Gold Medal Eau de Cologne is attracting so much attention. This delightful fashion series, "Today in Bond Street" is catching the eye of millions of women through the National Press and Magazines. The drawings, by Pierre Pagès the eminent Parisian artist, emphasize the fashionable appeal of Atkinsons Gold Medal Eau de Cologne.

ATKINSONS
GOLD MEDAL
EAU DE COLOGNE

J. & E. ATKINSON LIMITED, 24 OLD BOND STREET, LONDON, W. 1

AET 4-1062



POTTER'S

HADDIT

HOUSEHOLD INSECTICIDE SPRAY
AND DUSTING POWDER

SPRAY: A combination of "D.D.T." with its killing power of prolonged duration and Pyrethrum with its immediate action, in Hydrocarbon Oils.

10 oz. Bottles. Retail 2/6 each. 21/- per dozen.

DUSTING POWDER: A "D.D.T." Preparation for household and horticultural use. Packed in Sprinkler Containers.

1/- size 7/6
2/6 ,, (four times larger) 17/6

POTTER & CLARKE, LTD.,
60-64 ARTILLERY LANE, LONDON, E.1
BIShopsgate 4761
77 DANTZIC STREET, MANCHESTER
BLAckfriars 8734

SILCOT . . .

★★ *Two Quality Lines*

If you sell Silcot Sanitary Towels you should also make a point of selling Silcot Sanitary Belts.

The two lines have more in common than the name. They are of the highest quality and finish. They are in constant demand. They are securing for retailers regular repeat business.

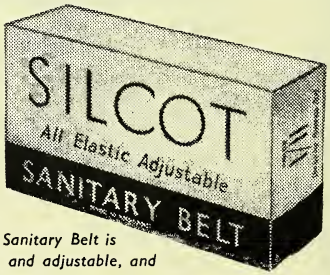
Like the towels, Silcot belts are meeting with the fullest approval. A Guernsey retailer wrote recently: "The Sanitary Belt . . . is very satisfactory in every detail."

Display the attractive cartons on your counter and increase your sales. One dozen cartons each containing one belt supplied in display outer carton.

PRICES:

SILCOT	Trade	Retail
Junior	15/9	1/9
Standard	18/–	2/–
Large	22/6	2/6
X. Large	27/9	3/1
Maternity	30/–	3/4
Vensilla	15/8	1/9

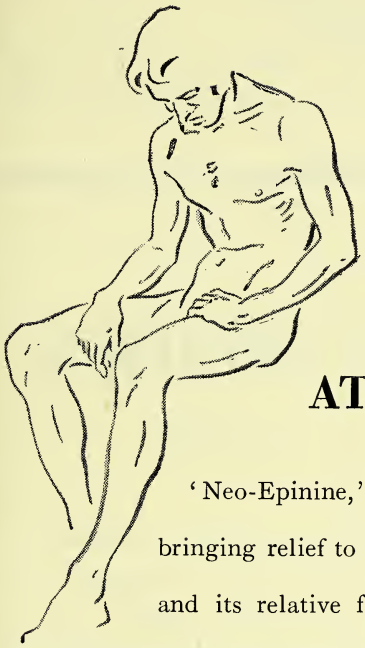
Sanitary Belts 16/9 per doz. 1/11 each.



The Silcot Sanitary Belt is all elastic and adjustable, and complete with hooks.

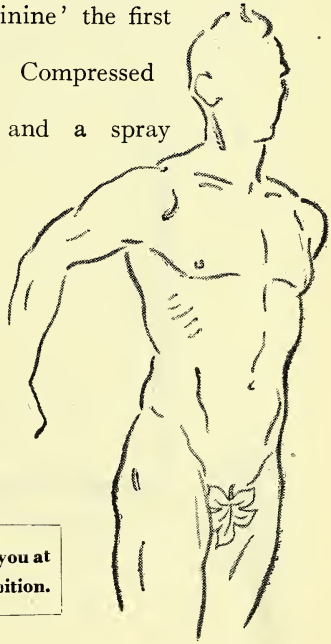
SILCOT SANITARY TOWELS

MACDONALD & SON LTD., DAWSON STREET, SALFORD, MANCHESTER, 3



AT THE FIRST GASP

'Neo-Epinine,' the new treatment for asthma, will be bringing relief to many of your customers. Its effectiveness and its relative freedom from the side-effects caused by adrenaline and ephedrine will make 'Neo-Epinine' the first choice of physician and asthmatic patient. Compressed products for placing beneath the tongue and a spray solution are now available.



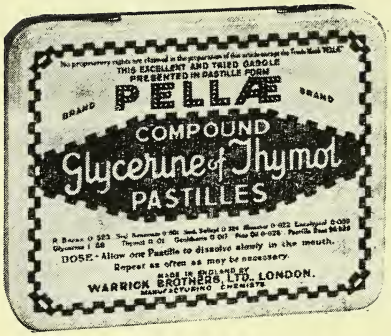
'NEO-EPININE' BRAND

ISOPROPYL*nor*ADRENALINE SULPHATE

Compressed products for sublingual administration, each containing 20 mgm.; in bottles of 25, 3s. 6d., and 100, 12s. 9d. Spray solution, containing 1 per cent of drug in bottles of 10 c.c., 3s. 6d. (Exempt from Purchase Tax.) Subject to usual trade discount.

We are looking forward to meeting you at Stand No. 9 at the Chemists' Exhibition.

BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON



Just two of

WARRICK'S

famous products

You can always depend on the high standard of quality that is consistently maintained.

Supplies are now available of a full range of—

MEDICATED PASTILLES

packed in tins — and in bulk

We can also undertake Special Packings and Special Formulæ

WARRICK BROS. LTD., NILE ST., LONDON, N.1.

The
CHEMIST AND DRUGGIST
for RETAILER—WHOLESALER—MANUFACTURER
SEPTEMBER 18, 1948
Published weekly at 28 Essex Street, Strand, London, W.C.2
Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London,"
gle copies 1/- each. Annual subscription, which includes The Chemist and Druggist Diary and Year Book, 30/-

No. 3578 Volume CL

CONTENTS

A Pharmacist's Anthology 391
British Association 367
BRITISH PHARMACEUTICAL CONFERENCE:
Closing Session 378
Conference Personalities 377
Preservatives in Pharmacy ... 383
Science Papers and Discussions ... 380
Business Changes 364
Coming Events... 366
Company News 364
Correspondence 391
Deaths 366
Editorial Articles:—
Medical Centres 375
Scientists at Brighton 376
A Local Victory over Mosquitoes... 376
Exports to Turkey 386
Guide to New Medicaments ... 370
Harvesting Peppermint (Pictures)... 371
Information Wanted... 374
Insects and Insecticides—3 372
Interim Report on Health Centres... 367
Legal Reports 364
Local News 362
Marriages 366
Nutrition Tablets Under Test ... 369
Overseas News 363
Topical Reflections 365
Trade Marks 392
Trade Notes 368
Trade Report 387
Wills 366
World Mineral Industries 386

NEWS OF THE WEEK

Wellcome Fellowship Awards.—The 'ellcome Pharmaceutical Research Fellow-ip for 1948-49 has been awarded to Miss 'inifred G. Keepe, Manchester. Miss eepe, who is engaged on research in the harmacy department of Manchester Uni-ersity, held the Fellowship in 1947-48. A 'ellcome Fellowship has also been warded to Mr. D. W. Wylie, Glasgow, ho is engaged in pharmacological re-arch at Glasgow University.

Chamber of Trade Resolutions. — The genda of the National Chamber of Trade utumn conference being held at Bridling-n, September 25-29, includes resolutions pposing the compulsory closing of shops noon on Saturdays, urging postponement the 1950 census of distribution, calling r the abolition of purchase tax, and claim-g that the cost of temporary shops made ecessary by war damage should be charge-ble as a business expense for income tax urposes.

Retail Sales in July. — A rise of 16.1 er cent. in retail sales of chemists' wares, mpared with a year earlier, is recorded for Great Britain as a whole in July. Regional increases occurred in the north-east (4 per cent.), midlands and south Wales (4 per cent.), suburban London (7.5 per cent.), and in the "unallocated" group (20 per cent.). Decreases occurred in Scotland (7.9 per cent.), north-west England (8.9 per cent.), southern England (2 per cent.), and central and west London (3.6 per cent.). A substantial fall in the value at cost of stocks held by retailers (amounting to 12.6 per cent.) is noted.

Insurance Reciprocity with Eire.—Under a new reciprocity agreement signed recently between Great Britain and Eire people insured in either country will be able to draw benefit from that country, at a rate not exceeding the rate payable in Eire, for the first six months after moving to the other country. After six months in the new country their previous insurance will be transferred to that country, the contributions paid in both countries counting towards benefit. The agreement applies on the British side to sickness benefit, maternity grant and attendance allow-

ance, but not to maternity allowance. On the Eire side it applies to sickness benefit, disablement benefit and maternity benefit.

Fine Chemicals Group. — The winter programme of the Fine Chemicals Group of the Society of Chemical Industry, which was set up recently for "the discussion of fine chemicals, especially those of therapeutic or biological interest," opens in October with an address by Professor J. H. Burn on "Fine Chemicals for Medical Use." The programme also includes lectures on "The Relationship between Chemical Constitution and Physiological Activity" (by Dr. F. Bergel) and "The Chemistry of Plant Growth Regulators" (by Dr. W. A. Sexton), a discussion on "The Chemotherapy of Tuberculosis," and a symposium on "Process Research in the Fine Chemical Industry." Applications for membership of the Group, which is open to all members of the Society of Chemical Industry, should be sent to Dr. William Mitchell, Stafford Allen & Sons, Ltd., Wharf Road, London, N.1.

Tax Decision on Toilet "Sets."—The Commissioners of Customs and Excise have decided that purchase tax at 100 per cent. is to be charged on brushes, combs, scissors, razors and other toilet requisites specified in Group 31(b) of the tax schedule, supplied as part of a toilet set, only when two or more different articles which are either matched or complementary in use are put up together in a case, box or container of any description. Thus, two matched hair brushes would not be regarded as comprising a toilet set, but two such brushes boxed with a comb would be chargeable at 100 per cent. A brush and comb boxed together would be taxable as a set. Containers for such articles are chargeable separately from the contents unless they are merely "customary and necessary packing," i.e., containers within the scope of Group 23 are chargeable separately at 100 per cent. if of leather, hide or skin and at 66⅔ if of other materials, e.g., imitation leather. A fitted dressing case is, however, taxable under Group 23 as an entity comprising case and fittings.

Industrial Medicine Congress. — The ninth International Congress on Industrial Medicine, the first to be held since 1939, was opened in London on September 13 by Mr. G. A. Isaacs, M.P. (Minister of Labour and National Service). There were present some 900 delegates, representing forty-six countries. Mr. Isaacs said that it was the policy of the Government that there should be an adequate national industri medical service, co-ordinated with tl National Health Service. He pointed o that the subject involved the services c amongst others, doctors, chemists, nurse engineers, managers, and operatives. Tl Minister named the Association of Briti Chemical Manufacturers as amongst o ganisations that had been particularly hel ful in industrial medicine matters. Amor subjects to be discussed by the Congre are the treatment of septic fingers wi penicillin; allergic reactions in workers en ployed on processing castor-oil seeds; tl potential hazards of radioactive isotope prevention of industrial dermatoses, silic sis, and health hazards in the chemical i dustry. Visits for delegates have been a ranged to, amongst other places, the Wel come Museum of Medical Science, Londo the works and retail shops of Boots, Ltc the National Institute for Medical R search, London, and the Medical Researc Council's industrial medicine and burns r search units, Birmingham.

LOCAL NEWS

Perth Shop Collapses.—The floor an one of the walls of a pharmacy on S Leonard's Bridge, Perth, collapsed c September 11. The entire back and or brick side of the premises disappeared, an the proprietor (Mr. Alexander MacGrego M.P.S.) sustained injuries.

London Golf Winners.—At a meetir of the London Chemists' Golfing Socie held at Sandy Lodge on September 8, flag competition for the Yeast-vite pri was won by Mr. A. H. Newcombe, (7), an a bogey competition for the Yardley cu by Mr. A. E. Whitwham, (4) 1 down.

Group Pharmacist Appointed. — Tl Mansfield Hospital Management Commi tee has appointed Mr. C. H. Preston Rol inson (secretary, Mansfield Branch, Pha maceutical Society, and chief pharmacis Mansfield General Hospital) to be grou pharmacist for the six hospitals and tw treatment clinics under its control.

Wimbledon Pharmacists' Visit.—Men bers of the Wimbledon Pharmacists' Ass ciation who visited Glaxo Laboratorie Ltd., Greenford, on September 1, wer received by Mr. L. F. Kitch, M.P.S. The were shown the tablet and pharmaceutic manufacturing departments, nutrition sul division, bacteriological department an penicillin assay laboratory.

Liverpool Display Course.—A speci display course for chemists' assistants is t

held at Liverpool School of Arts on ednesday evenings commencing Septem- r 22. Mr. T. B. Clarkson, M.P.S. (Boots, d., and joint chairman, North-western anch, British Display Association) has ken a leading part in organising the urse.

Dartford Refresher Course. — A re- sher course for pharmacists is to com- ence at the Dartford Technical College October 25 at 7.30 p.m. Mr. S. R. M. ishby is to lecture on "Chemotherapy d Antibiotics," and Dr. T. Dewar on Forensic Pharmacy." A lecture on Sterile Pharmaceuticals," with practical ork, is to be given by Dr. K. R. Capper. pplications for admission to the course e £1 1s.) should be sent to Mr. G. H. eard, 267 Princes Road, Dartford.

Cornish Chemists and Doctors Meet.— joint meeting of the Cornwall Medical d Pharmaceutical Committees was held September 2, at the request of the Phar- aceutical Committee, to discuss rota ities and arrangements for dispensing gent prescriptions. The discussions, writes r. A. C. Cannon (secretary, Pharmaceuti- l Committee), were "cordial and in the irit of mutual helpfulness." The doctors dertook to urge all their colleagues to art evening surgeries as early as possible. hey agreed that only prescriptions marked urgent" should be dispensed after rota ours, and that no extension of the Sun- y opening of pharmacies was required. he pharmacist members stated that there re in every town arrangements for dis- ensing urgent prescriptions at any hour of e day or night. One problem discussed ncerned a small town, with only one harmacist, where each of the two doctors closed his surgery on a different half-day, so that the pharmacist was unable to take a half-day. The secretary of the Pharmaceutical Committee undertook to discuss the matter with the doctors concerned. It was decided that another meeting should be held after a few months to consider any changes shown to be necessary in the light of experience.

OVERSEAS NEWS

Utrecht Trade Fair. — The fifty-first Utrecht Fair, which opened on September 7, comprised 2,794 exhibits, of which 1,360 came from foreign manufacturers. Great Britain had the largest representation with 314.

Anti-ringworm Compound. — A new fungicide for the treatment of athlete's foot and ringworm was described at the recent meeting of the American Chemical Society in Washington. The product is 4-(4-ethyl-cyclo-hexyl-methyl) pyridine.

All-India B.C.G. Vaccination. — The first nation-wide B.C.G. vaccination campaign in India was inaugurated recently at Madanapelle, near Madras. It is organised jointly by the Indian health authorities and the World Health Organisation.

Australian Dental Propaganda. — Addressing the Australian Dental Congress, held recently at Perth, Western Australia, Mr. Stanley Wilkinson, president of the Australian Dental Association, announced that the Australian Federal Government and the Association were considering launching a vigorous campaign, estimated to cost about £3,200,000 annually, against dental disease.

TAFF GROUP.—Mr. J. J. Stafford, Irish manager of Kodak, Ltd. (eighth from left in front row), with embers of the company's staff photographed at the Mansion House, Dublin, during the holding there of the Kodak exhibition of applied photography.

LEGAL REPORTS

Pharmacy Act Fines.—At Nottingham, recently, Thomas Jackson Eyre, 2 Harrington Drive, was fined £20, with £3 3s. costs for issuing advertisements (in a booklet entitled "Bio-chemistry") in terms likely to lead to the use of a preparation for the treatment of tuberculosis, epilepsy, paralysis and diabetes, contrary to the Pharmacy and Medicines Act, 1941. Eyre was stated to be trading as the Chromo Bio-Chemical Co., Nottingham.—At Sale, Ches, recently, fines totalling £37 were imposed on the Manchester and Salford Co-operative Society, Ltd., for selling, at their Sale branch, a medicine containing poison otherwise than under the supervision of a pharmacist.—At the same court Lyons (Chemists), Ltd., Northern Road, Sale, were fined £5 on a similar charge.—At Horncastle, Lincs, recently, Carlton's, Ltd., High Street, were fined £5, with £3 3s. costs, for selling poisons otherwise than under the supervision of a pharmacist.

COMPANY NEWS

Maxwell Vites, Ltd. (P.C.).—Capital £1,000. To acquire the business of a pharmaceutical chemist and optician carried on at 200 York Road, Leeds. Maxwell Vites, M.P.S., director.

F. Farthing & Co., Ltd. (P.C.).—Capital £500. To carry on the business of chemists and druggists, etc. Frida Farthing director. R.O.: 121 Notting Hill Gate, London, W.11.

Nicols (Chemists), Ltd. (P.C.).—Capital £100. To carry on the business of wholesalers of chemicals, drugs, medicines, etc. Oscar H. Smith, M.P.S., and Robert O. Hanson, directors. R.O.: 150 Southampton Row, London, W.C.1.

Ashton's (Chemists), Ltd. (P.C.). — Capital £500. To carry on the business of chemists and druggists, etc. Percival K. W. Ashton and Robert Gaunt, M.P.S., directors. R.O.: 4 Cameron Road, Seven Kings, Ilford.

P. T. Harris, Ltd. (P.C.).—Capital £25,000. To carry on the business of wholesale and retail chemists and druggists, etc. Oscar H. Smith, M.P.S., and Valentine W. Sands, directors. R.O.: 150 Southampton Row, London, W.C.1.

P. Smith (Mountain Ash), Ltd. (P.C.).—Capital £500. To acquire the business of a druggist carried on at 48 Oxford Street, Mountain Ash, Glams. Percival Smith and Mrs. Elizabeth A. Smith, directors.

Bryson (Leather) Processes, Ltd. (P.C.). — Capital £500. To carry on the business of chemists, druggists, manufacturers of, and dealers in, polishes, etc. Herbert C. Bryson and Donald Stretton, directors. R.O.: Station Road, Irthlingborough, Northants.

Drofyart, Ltd. (P.C.). — Capital £1,000. To carry on the business of manufacturers of perfumery, cosmetics and toilet, pharmaceutical and proprietary preparations, etc. Arthur S. E. Trayford, director. R.O.: 15 St. Donatt's Road, London, S.E.14.

H. Stout & Co., Ltd. (P.C.).—Capital £7,000 To carry on the business of manufacturers of instruments and medical, surgical and scientific glassware, etc. Harold V. Stout and Irene E Stout, directors. R.O.: 33 Gautrey Road, S.E.15.

Tudor Jones (Chemists), Ltd. (P.C.).—Capital £2,000. To carry on the business of manufacturers of, and dealers in, chemicals, drugs, medicines, etc. Gwylym T. Jones, M.P.S., and Cyril H. Smith, M.P.S., 11 Olive Mount, Oldbury, directors.

Wendover House, Ltd. (P.C.).—Capital £1,000 To carry on the business of manufacturers of toilet preparations, pharmaceutical products, medicine and drugs, etc. Ronald T. Hagman, John E White and Samuel Smith, M.P.S., directors. R.O. Beaconsfield Close, Friern Barnet, London, N.11.

Primavera Herbs, Ltd. (P.C.).—Capital £1,000 To carry on the business of manufacturers of and dealers in herbal and patent medicines, chemicals etc. Juliette de B. Levy, Clement Lassiere and Thelma S. Lassiere, directors. R.O.: 1 The Esplanade, Harrogate.

Styles & Marriott, Ltd. (P.C.). — Capital £1,500. To carry on the business of manufacturing and dispensing chemists and druggists, etc Eric W. Styles, M.P.S., Leonard F. Marriott Joan E. Styles and Helen M. Marriott, directors R.O.: 37 Fore Street, Bovey Tracey, Devon.

Kavanagh (Bedford), Ltd. (P.C.). — Capital £1,000. To acquire the patent rights in the medicine known as Sailor's skin salve and Indobalm applied for by Violet W. de Kavanagh, together with the trade marks in the same names, and to carry on the business of manufacturers of chemicals, drugs, medicines, etc. The first directors are not named. R.O.: 26 Waterloo Road, Bedford.

BUSINESS CHANGES

Mr. Francis R. Binnington, M.P.S., has been granted permission by the Royal Court of Jersey to practise on the island as a pharmacist.

Mr. A. H. Fleming, M.P.S., has acquired the pharmacy at 107 Longrow, Campbeltown, Argylls, formerly carried on by Mr. W. R. Morrison.

A. L. Macfarlane, Ltd., pharmaceutical distributors, have removed to 32 Stobcross Street, Glasgow, C.3.

Hyde Plastics, Ltd., is the new title adopted by the company formerly known as Hopf Products Ltd., Rookery Way, The Hyde, Hendon, London N.W.9.

The Commissioner for Northern Rhodesia is the new designation for the Northern Rhodesian Government representative in London, 57 Haymarket, London, S.W.1.

Lofthouse & Saltmer, Ltd., manufacturing chemists, Hull, have appointed Mr. J. B. Stocks, M.P.S., Cottingley, nr. Bingley, representative for Nottinghamshire and the West Riding of Yorkshire. Mr. Stocks was formerly with Prichard & Constance (Manufacturing), Ltd.

TOPICAL REFLECTIONS

The Range of Science

Your excellently illustrated report of the British Pharmaceutical Conference meeting, a report filling about half of last week's issue, includes something for every reader. In the constantly expanding range of science, the student and the practitioner must perforce learn, as someone has said, more and more about less and less. Looking through abstracts of science papers, the busy man or woman is justified in selecting for chief attention those of greatest personal interest. (This remark applies also to the meeting of the British Association, which followed that of the Conference at Brighton.) But the emphasis of attention referred to does not involve the corollary that subjects of lesser interest do not matter. Realising that they matter intensely to some class or classes of workers, we are encouraged to keep them within our purview. During recent years problems of manufacturers have become more prominent in Conference papers than problems of retail and of hospital pharmacists: the fact is explained by the increase in large-scale manufacture and the decrease in small-scale production in pharmacies. An ideal is attainable—if not always attained—when, as during the Brighton meeting, a session is devoted to consideration of a given subject from both retailer's and manufacturer's points of view.

Branch Representatives' Meeting

We have not had to wait long this year for a report of the branch representatives' meeting held in connection with the Conference (pp. 349-53). Your editorial comment that members of the Pharmaceutical Society will one day expect policies to be expounded at such meetings by chairmen of committees in charge of those policies is a significant point. There is really no reason why there should be so many dumb dogs in evidence on these occasions. Fundamentally, of course, the deliberations of delegates leave the Society's Council in possession of the field. At the same time these meetings afford practice in the difficult art of public speaking; and speakers who ask for a verbatim report of the proceedings, regardless of expense, may find a training of memory a useful adjunct. The only two subjects of the agenda mentionable here are the employment of unqualified assistants and the information supplied in the Society's Registers. As my view on recognition of the unqualified has lately been expressed, I need only record my satisfaction at the statement from the platform that the problem should be examined again. The question of what might be added in the Registers to the bare facts now given about registered pharmacists was raised many years ago. I am one of those who favour the inclusion of titles and distinctions in cases where they have been granted. Why should there be any shyness in this respect? Opening a Medical and a Dentists' Register at random, I find such designations as K.B.E., C.M.G., M.C. without searching for them.

"Repeat" N.H.S. Prescriptions

The letter in a medical contemporary asking for the introduction of "repeat" prescriptions into the National Health Service (*C. & D.*, September 11, p. 336) foreshadows, if I am not mistaken, definite action to this end by the medical profession. In the early years of National Health Insurance the use of such prescriptions caused, as your columns showed, much inconvenience to panel chemists. In some instances "repeats" were ordered so long after the issue of the corresponding first prescriptions that those originals were not traceable. To minimise the trouble it was suggested that the issue of every "repeat" should be limited to the calendar month in which its "parent" prescription was given; and eventually this class of document was abolished. In 1948 the conditions of panel practice differ considerably from those of 1913. The average size of panels has increased so much that any workable saving of prescribers' time is likely to be given official recognition. A recent issue of "The Spectator" contained an amusing (or, according to the point of view, not very amusing) illustration of the unreasonable demands now being made on panel doctors. Under the Poisons Rules a precedent for the issue of "repeat" prescriptions has been established. It should therefore be feasible to arrange for two or three supplies of medicine by means of one prescription, with a time limit for the dispensing. Pharmacists should insist, through their statutory committees, that prescribers do not concentrate mixtures to an extent likely to cause a dangerous incompatibility in the product.

Xrayser

MARRIAGES

McVicker-Holmes.—At Coventry, on September 9, John Louis Armitage McVicker, M.B., Ch.B., Edinburgh, to Betty, only daughter of Mr. William Holmes, M.P.S., 198 Kenpas Highway, Coventry.

Paterson-Burt. — At Edinburgh, on September 8, Robert Davidson Paterson, M.P.S., 19 Albion Road, Edinburgh, to Ellen Stuart Kinloch Burt, Edinburgh.

DEATHS

Callow.—On September 3, Mr. Herbert John Callow, M.P.S., 214 Pineapple Road, King's Heath, Birmingham, aged sixty-one. Mr. Callow, who qualified in 1911, was for twenty years a territorial general manager for Timothy Whites & Taylors, Ltd., or its predecessors. He was chairman of the Birmingham and a member of the Warwickshire Pharmaceutical Committees, and pharmacist representative on the Birmingham Executive Council.

Mangan.—Recently, Mr. James Mangan, M.P.S.I., Tralee, co. Kerry. Mr. Mangan, who qualified in 1904, had been in business in Tralee for forty years. He was father of Mr. Vincent P. Mangan, M.P.S.I., Limerick, and father-in-law of Mr. L. Johnston, M.P.S.I., Cork, and Mr. M. Power M.P.S.I., Limerick.

Morison.—At the Royal Infirmary, Edinburgh, on September 10, Mr. John Wilson Morison, Dundee Street, Edinburgh. Mr. Morison qualified as a chemist and druggist in 1910.

Smith.—At his home, The Firs, Downham Market, Norfolk, on August 21, Mr. Harry George Smith, M.P.S., aged eighty. A native of Downham Market, Mr. Smith qualified in 1890, and took over in 1893 the business of which he was senior partner at the time of his death. During the 1914-18 war Mr. Smith was second in command of the 2/5 Battalion, Norfolk Regiment. He was a prominent Freemason, and served for a term as chairman of the local urban district council.

Walton.—On August 9, Mr. Leonard Gratrix Walton, M.P.S., superintendent of L. G. Walton, Ltd., 132 Highgate, Kendal.

Weir.—In an Aberdeen nursing home recently, Mr. Alexander Sim Weir, M.P.S., Kemnay, Aberdeen, aged eighty-one. Mr. Weir, who was known as "the grand old man of Kemnay," was actively engaged in his business until a few days before his death. He was a member of the General Council of Panel Chemists.

WILLS

Mr. C. F. T. Jones, M.P.S., 143 Castle Road, Bedford, left £6,256 (£5,588 net).

Mr. A. H. Clent, M.P.S., 15 Park Road, Heaton Moor, Lancs, formerly of Hillside Road, Mossley Hill, Liverpool, left £2,701 (£2,539 net).

Mr. A. Stewardson, Ph.C., 30 Dunholme Road, Newcastle-upon-Tyne, and 17 Elswick Road, Newcastle, left £11,293 (£10,740 net).

Dame E. F. Maclean, Strathavon, West Overcliff Drive, Bournemouth, Hants, widow of Sir Alexander Campbell Maclean, founder of Macleans, Ltd., manufacturing chemists, left £96,362 (£95,944 net).

COMING EVENTS

Secretaries of pharmaceutical organisations are invited to send copies of their programmes to the Editor for publication under this heading.

Monday, September 20

Chemists' Exhibition, Central Hall, Westminster, London, S.W.1 (exhibition continues until Friday, September 24, opening daily at 11 a.m., closing Monday and Tuesday at 8 p.m., Wednesday and Thursday at 9 p.m., and Friday at 7 p.m.).

Tuesday, September 21

Pharmaceutical Committee Representatives' Conference, Conway Hall, Red Lion Square, London, W.C.1, at 2 p.m. Discussion on pricing arrangements under the National Health Service.

Bradford Branch, Pharmaceutical Society, Midland Hotel, Bradford, at 7.30 p.m. Professor H. Berry on "The British Pharmacopœia, 1948."

Wednesday, September 22

National Association of Women Pharmacists, 17 Bloomsbury Square, London, W.C.1., at 7.30 p.m. Dr. H. Davis presenting "A Pharmaceutical Miscellany."

Scottish Chemists' Bowling Association, Larbert Bowling Green, Larbert. Pairs competition for Gibbs trophy. Entries (2s. 6d. each) should be sent not later than September 20 to Mr. W. Peebles, 110 Springfield Road, Glasgow, S.E.

Thursday, September 23

Dartford Branch, Pharmaceutical Society, Wellcome Club, High Street, Dartford, at 8 p.m. Dr. D. M. Thomson on "Some Aspects of Forensic Medicine."

London Chemists' Golfing Society. Fixture at Old Ford Manor Golf Club (Telephone: Barnet 2266).

Friday, September 24

Wembley Chemists' Association, Town Hall, Wembley, Middlesex, at 7.45 p.m. Address by Mr. George H. Priestley (an employee member of the Middlesex Pharmaceutical Committee).

Saturday, September 25

National Chamber of Trade, Spa Royal Hall, Bridlington. Autumn conference (continuing until September 29).

Wembley Chemists' Association is holding its third annual dinner and dance at the Oldfield Hotel, on Wednesday, October 27. Tickets (15s. 6d. each) are obtainable from Mr. C. Baker, 11 The Parade, Kingsbury Lane, London, N.W.9, or from Mr. Evan C. Meredith, 18 Wentworth Hill, Wembley (Telephone: Arnold 7098).

INTERIM REPORT ON HEALTH CENTRES

A COMMITTEE set up by the Council of the British Medical Association in April 1947 to investigate existing forms of group practice and relate the information to health centre development recently issued its interim report. The committee's general finding is that "the most satisfactory form of practice at the moment and in the immediate future is partnership practice from a common surgery." At present, too many doctors work in isolation. An even more serious defect is that "family medical practice" is arbitrarily divided between so-called general practice and the mainly preventive work carried out by clinics. The committee considers that some way ought to be found of uniting the two. "What is wanted is assimilation and not merely liaison."

To effect this change, the "definite conception" emerges of a well-equipped building housing a group of doctors who carry out in a co-ordinated way all the work at present done by "g.p.s" and by the medical officers at clinics. "The term 'health centre' has already been applied to buildings of varying types with varying functions, but the Council is of opinion that. . . the organisation of each centre . . . should in general conform to certain basic principles." A detailed description of the Council's concept of a health centre is given.

In addition to housing general practitioner and local authority services — "integrated," and not, as in plans for health centres already prepared by many local authorities, simply placed side by side in the same building—the centre would have its own staff of nurses and midwives, and the range of work done would include general medical service, care of mothers and young children, care of school children, vaccination and immunisation, ante- and post-natal examinations, health visiting, home nursing and health education.

The report seems to go further in recognising the point of view of pharmacists than has, perhaps, been the case in the past. It states:—

> Different districts will require different arrangements. The existing extreme shortage of trained pharmacists will affect the question of providing a dispensary in a health centre, especially as at least two dispensers would be required to cover the necessary hours of work. In many cases the most efficient pharmaceutical service will be obtained from the chemists' shops in the district, especially if they adopt a rota system for work out of ordinary hours.

Perhaps for the reason given in the last sentence of that paragraph, the only reference to pharmaceutical services among twelve items of accommodation considered essential is "A dispensary may be required."

The Council considers that the administration of the centre should be in the hands of a joint committee representing all the professional personnel (including pharmacists) and the medical officer of health or his nominee.

BRITISH ASSOCIATION

AMONG the subjects discussed at the annual meeting of the British Association for the Advancement of Science, held in Brighton recently, was a threatened world shortage of chemicals. PROFESSOR J. D. BERNAL stated that rapid increase in the use of chemicals by industry and agriculture threatened to exhaust the most concentrated natural deposits "in a matter of decades." The problem was particularly acute in Britain, a country with relatively limited resources. DR. R. P. LINSTEAD (director of the chemical research laboratories, Department of Scientific and Industrial Research) said that more than half of the research in the laboratories was on some aspect of the conservation of chemicals. More minerals had been taken out of the ground in the United States since 1900 than from the whole world in its previous history. Britain was having to pay dollars for sulphur, an element which was recoverable from products that at present were being wasted. DR. M. W. THRING said that amount of sulphur unearthed from coal mines in Britain annually was equivalent to 10 million tons of sulphuric acid. DR. R. LESSING added that most of that sulphur escaped into the atmosphere to attack buildings, metals, clothes and health.

In a presidential address SIR HENRY TIZARD mentioned that the nation's wartime efforts fell short of the highest standards at the stage of design and production and quoted as an example the need to "rely on American skill" for the development of an adequate rate of penicillin production. PROFESSOR JOHN READ (president of the chemistry section of the meeting) warned chemists against the dangers of specialisation and stressed the advantages of a wide initial basic knowledge including, in particular, mathematics, physics and biology.

TRADE NOTES

New Display Material. — Redesigned display outers and cartons for Musterole and a new showstand for M.O. are available from the distributors, Thos. Christy & Co., Ltd., Farnham, Surrey.

Baby Gift Box.—Orders are invited by Johnson & Johnson (Great Britain), Slough, Bucks, for a baby gift box containing powder, lotion and cream, illustrated in the company's announcement on another page.

Price Increased.—Jeyes' Sanitary Compounds Co., Ltd., Millbrook, Chigwell, Essex, announce that all orders dispatched since September 1 have been subject to a price increase, details of which are given on another page of this issue.

Extensions to Range.—Bioglan Laboratories, Ltd., are sending to their overseas agents advanced details of a number of new specialities which they are adding to their range. The items include Bioglan vitaminiser, 456, anti-migraine, and desensitising factor.

Exhibition on Tour. — The exhibition "Photography in Industry and Commerce" (the revised Kodak exhibition of applied photography) is to be shown this autumn at Newcastle (September 20-24), Liverpool (October 4-8), Nottingham (October 18-22), Cardiff (November 1-5), and Cambridge (November 15-19). Tickets are available from the industrial sales division, Kodak, Ltd., Kingsway, London, W.C.2.

Animal-feeding Test Material.—Allen & Hanburys, Ltd., Bethnal Green, London, E.2, have made available, in bottles of 100 and 500 gm., vitamin-free hydrolysed casein, A. & H., for use in animal feeding experiments. The preparation has been developed in the company's laboratories; it contains in each gm. less than 0.5 μgm. of nicotinic acid and 0.5 μgm. of pantothenic acid.

Now Tax-free. — The British Drug Houses, Ltd., Graham Street, City Road, London, N.1, announce that following negotiations with the Commissioners of Customs and Excise, Calsimil is now declared free of liability to purchase tax. Trade prices are unchanged.—Sharp & Dohme, Ltd., Hoddesdon, Herts, announce that Prothricin antibiotic nasal decongestant is now free of purchase tax. The product is supplied in bottles of 1 fl. oz.

Lighting Fitments. — Advertisers whose announcements in this issue are devoted to methods of improved shop lighting include the British Thomson-Houston Co., Ltd., Crown House, Aldwych, London, W.C.2, Crompton Parkinson, Ltd., Astor House, Aldwych, London, W.C.2, the General Electric Co., Ltd., Magnet House, Kingsway, London, W.C.2, and Siemens Electric Lamps & Supplies, Ltd., 38 Upper Thames Street, London, E.C.4.

Tablet Shape Changed.—British Schering, Ltd., 167-69 Great Portland Street, London, W.1, state that in future their medical tablets will be of biconvex shape instead of the flat form previously compressed. Tablets of biconvex shape will be issued as soon as existing stocks of the older type have been exhausted. The change has been made to prevent breakage of tablets during transit and use. The property of rapid disintegration in liquids is retained.

New Size.—To coincide with the issue of a new size of Veno's Lightning cough mixture, Veno Drug Co., Ltd., Chester

Road, Manchester, 16, have produced a new cut-out showcard, supplies of which are available either through the company's representatives or by direct requisition.

Guide to B.P., 1948.—A limited number of copies are available to pharmacists of a 145-page "B.D.H. Guide to the B.P. 1948" just issued by The British Drug Houses, Ltd., Graham Street, City Road, London, N.1. The volume is the third of its kind. Its purpose is to direct attention

preparations that differ in strength or omposition from the corresponding prearations of the B.P., 1932 or its Addenda, nd to preparations that become official for e first time.

Bonus Terms. — From September 20 pening date of the Chemists' Exhibition) ntil October 31, C. E. FULFORD, LTD., arlton Hill, Leeds, are allowing a special per cent. discount on all direct retail rders of £6 or over, whether placed at e Exhibition or sent direct to Leeds.— HARP & DOHME, LTD., Hoddesdon, Herts, vite chemists to write to the company's eadquarters, or inquire of the company's epresentative, for details of new bonus rms for Virvina, effective until October 1.

Proprietary Articles Trade Association

Additions to Protected List (Part 1).—*J. L. Bragg, Ltd.*, Carbamaxa tablets, 21s. doz., tax 33⅓ per cent., inclusive retail price 2s. 11d.; powder, 36s. doz., tax 33⅓ per cent., i.r.p. 5s.

Alterations to List (Part 1).—*Allen & Hanburys, Ltd.*, Correction to P.A.T.A. year-book: Standard wholesale prices, Calcydic granules, 22s. doz., 37s. doz.; tablets, 14s. 3d. doz., 26s. 6d. doz.; carminative, 12s. doz., Salicylysin liniment, 32s. doz., 59s. 9d. doz.; ointment, 36s. 6d. doz.

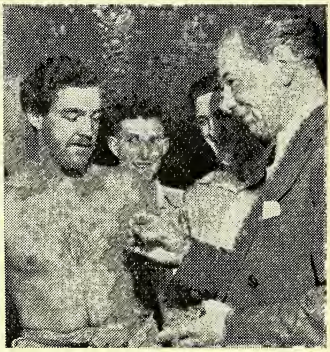
H. R. Napp, Ltd., Bonus offer, Abecedin tablets, on minimum orders of two doz. 21-tablet, 3 x 21 free of charge in return for display.

Alterations to List (Part 2).—*Thos. Harley, Ltd.*, Annual bonus on Rodine rat poisons, October 4-16, inclusive, one extra tin to doz. of the 1s. 6d. size in return for seven-fourteen days' display.

Deletion from List. — *Potter & Clarke, Ltd.*, Hedakene (temporarily discontinued).

NUTRITION TABLETS UNDER TEST

s a means of demonstrating their laim that Etagone vital extractive" ablets "entirely eplace food and rink for four days ithout loss of trength and energy," the manuacturers — Allied aboratories, Ltd., 40 Park Lane, London, W.1 — taged recently a -day test in which hey enlisted the o-operation of 100 nedical students rom teaching hospitals. The students were aken to Marsh Court, a country manion in a Hampshire village about seven iles from Winchester, and kept within he confines of the house and grounds uring the whole period of the experiment. ach day eighty of the students received hree "meals," each consisting of two tabets of Etagone, at 8 a.m., 1 p.m. and p.m. From 8-10 a.m. each day they ere subjected to medical and intelligence ests. For the rest of the time they were llowed to engage in any indoor or outloor occupation except swimming. The ther twenty agreed to undergo complete tarvation as a control. Fourteen did so or four full days, four for three days and wo for two days before transferring to the arger group of those on Etagone diet.



Left: Etagone tablets leaving the production line. Right: One of the 100 medical students who submitted to a diet of Etagone tablets for five days being shown one-half of a "meal" by Dr. H. E. Heitz (chairman of the company).

According to a report issued by the company at the conclusion of the experiment, all returned to normal existence in full health and spirits.

The formula of the product is not disclosed, beyond the fact that the tablets contain carbohydrates, protein, mineral salts, vitamins and "thirst-quenching chemicals." It is understood that the formula was recently improved, yielding a superior product to the tablets which the makers supplied in large quantities during the 1939-45 war for the use of the mercantile marine, ambulance units and commandos. The entire output of the product is at present going for export. It is understood from the manufacturers that supplies for the home market will be available at a later date.

GUIDE TO NEW MEDICAMENTS

Information about new proprietary medicaments to be supplied principally on prescrip tions. Editorial recommendation is not implied. Reprints obtainable on application

STERAMIDE—Ag

MANUFACTURER: Ward, Blenkinsop & Co., Ltd., 6 Henrietta Place, London, W.1.

DESCRIPTION AND FORMULA: A solution containing sulphacetamide solution, 30 per cen and silver vitellin, 5 per cent.

INDICATIONS: Blepharitis, conjunctivitis, etc., and nasopharyngeal infections.

HOW SUPPLIED: Pipette bottle containing 25 mils.

CRYSTULES

MANUFACTURER: Ciba Laboratories, Ltd., Horsham, Sussex.

DESCRIPTION: Ampoules each containing a crystalline hormone in buffered, isotonic aqueous suspension, and 2 mgm. Nupercaine (to produce local anæsthesia).

INDICATIONS: For depôt therapy.

DOSAGE: The contents of one or two Crystules are injected intramuscularly, usually intragluteally.

HOW SUPPLIED: Boxes of one or three Crystules containing 50 mgm. of testosteron propionate, B.P., 1948 (Perandren); or progesterone, B.P. (Lutocyclin); or deoxy cortone acetate (Percorten).

NOTES: The effect of one Crystule lasts for several weeks.

ANTISTIN-PRIVINE

MANUFACTURER: Ciba Laboratories, Ltd., Horsham, Sussex.

DESCRIPTION: An aqueous solution of 2-phenylbenzylaminomethyl imidazoline sulphate 1 in 200 with 2-(naphthyl-methyl)-imidazoline nitrate, 1 in 4000.

INDICATIONS: Allergic conditions of the nose and eye including hay fever, vasomoto rhinitis, conjunctivitis and keratitis.

DOSAGE: 2-4 drops by instillation into each nostril three or four times daily. May also be used in an atomiser. One drop by instillation into conjunctival sac three to five times daily.

HOW SUPPLIED: ½ fl. oz. dropper bottle.

NOTES: Maker states that the solution is isotonic, buffered, and contains a preservative and that it is compatible with silver and zinc compounds, and with mydriatics, and myotics.

INJECTION OF T.E.A.B.

MANUFACTURER: Boots Pure Drug Co., Ltd., Nottingham.

DESCRIPTION: A sterile 10 per cent. solution of tetraethylammonium bromide for parenteral administration.

USES: For producing a fall in blood pressure. Used in the treatment of peripheral vascular disease, including Raynaud's syndrome, *thrombo-angiitis obliterans* and *thrombo-phlebitis;* neuralgia following herpes zoster; gastro-intestinal conditions for increasing bladder capacity, etc.

DOSAGE: Intravenously, 0.2-0.5 gm. of tetraethylammonium bromide in 10 per cent solution. Intramuscularly, not more than 20 mgm. of the salt per kilo of body weight.

HOW SUPPLIED: Boxes of twelve and twenty-five 1-mil or 5-mil ampoules.

NOTES: Should not be administered to patients with subnormal blood pressure or with vasomotor instability.

Harvesting PEPPERMINT at a Kent Farm

At Crockenhill farm, Kent, where peppermint has been cultivated for many years, machine-harvesting methods are usually adopted, but this year the return was below standard and cutting was by hand (1). When partly dry, the cut plants are made into bundles and tied into mats (2) for protection during cartage. At distilleries at Mitcham, the herb is fed into a still and well trodden down (3). The mixture "stews" for many hours. The farmer is present to see samples of the oil taken off by the "head man" of the distillery (4).

INSECTS AND INSECTICIDES

By M. J. Way, B.A.

(Entomologist, Insecticides Department, Rothamsted Experimental Station)

3. Insecticide Classification

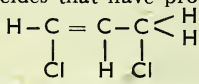
NOWADAYS so many different insecticides are used that it is rather difficult to discuss them without some form of classification as a basis. The following list gives the main types, with examples:—

1. *Fumigants:* Hydrogen cyanide, nicotine, methyl bromide, ethylene dibromide.
2. *Winter washes:* Tar oils, nitrocresols.
3. *Inorganic stomach poisons:* Lead arsenate, Paris green.
4. *Plant insecticides* (mainly contact insecticides). Pyrethrins, derris, nicotine.
5. *Synthetic insecticides* (generally possessing contact and stomach-poison action): DDT, Gammexane, hexaethyl tetraphosphate.

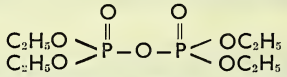
The fumigants and winter washes are used for rather specialised purposes, but the others form a group of what may be called general insecticides. The recently discovered insecticides are almost entirely synthetics, but it is a mistake to assume that these have superseded the older plant insecticides, some of which are still of considerable importance. In this article it is proposed to discuss the older insecticides and, where relevant, to compare them with one or two recently discovered insecticides that are now used commercially and have a similar sphere of usefulness.

Fumigants

Until fairly recently the use of fumigants was limited to (1) glasshouses where such insecticides as nicotine and hydrogen cyanide provided effective control of white-fly and green-fly, and (2) food stores in ships' holds and barges, where beetle and moth pests were controlled by the use of methyl bromide. Today, however, outdoor fumigation is carried out in agricultural practice. For controlling green-fly, nicotine is vaporised and injected under a light drag-sheet, which is drawn over the crop and serves to confine the fumigant around the plants for the period required to kill the insects (about three minutes). A number of serious pests that spend a part at least of their life-cycle in the soil, notably wireworm and Colorado beetle, are controlled by soil fumigation. One machine made for large scale soil application is equipped with a series of teeth (each of which draws a furrow), and a tube behind each tooth dribbles a volatile liquid insecticide such as methyl bromide into the furrow, which is then filled in. Apart from methyl bromide, other recent insecticides that have proved effective



1:3 Dichloropropane — stated by United States workers to be the main toxic constituent of DD



Tetraethyl pyrophosphate—thought to be the main toxic principle of a complex mixture known as hexaethyl tetraphosphate.

for control of soil pests are ethylene dibromide and dichloropropane-dichloropropene (DD). These have the effect of producing greener and healthier-looking plants than would be expected as a result of insect-pest control alone. Up to the present, however, they have not been greatly used in Britain.

Winter washes are used as emulsions in water to destroy the overwintering eggs of various pests of fruit crops, notably green-fly, apple sucker, capsid bug, winter moth and red spider. Petroleum oils appear to act by suffocation, blocking the capillaries which enable respiration to occur through the insect egg shell. Widely used nowadays are tar distillates, including derivatives of dinitro-*o*-cresol. Though they are potent insecticides, the use of these compounds is limited to winter washes, because they are toxic to plant foliage. Commercially an emulsion containing a mixture of 3 per cent. tar distillate, with 5 per cent. petroleum oil, is generally used, and this is toxic to the eggs of all the insects mentioned above.

Stomach poisons

Inorganic stomach poisons have been widely used in the past. Paris green (copper aceto-arsenate) has proved valuable, for example, wherever malaria control measures have been carried out, the insecticide being dusted on the surface of water infested with mosquito larvæ. Lead arsenate was used for the control of the fruit free pests, codling moth and apple sawfly, the grubs

which are found only too frequently in-le apple fruits. In practice, a suspension the arsenate in water is sprayed on to e blossom just before the flowers open or st after petals fall, and the grubs, after tching from the eggs, which are laid on e surface of the young fruit, are killed the arsenate consumed as they begin to rrow into the fruit. Unfortunately, in veral parts of the world, strains of codling oth showing resistance to arsenic have de-loped, and this eventuality has necessi-ted frequent sprayings—sometimes ten r season. As a result, heavy coatings of ar-nate that were deposited on the fruit have d to be removed by washing with acid to nder them harmless to human beings. ead arsenate, moreover, is destructive to neficial insects that destroy codling moth, nd, in parts of South Africa, it was shown cently that less codling-moth damage oc-rred when arsenate sprayings were dis-ntinued, because beneficial insects caused ore effective control than the insecticide. his is not the experience in most parts of e world.

Arsenates have been used to control cater-illar and beetle pests of market-garden rops, but great care has been necessary to nsure that arsenic residues toxic to human eings are not left on the crops.

roperties of DDT

Arsenic compounds, because of their dan-er to man and mammals, are not satisfac-ory insecticides, and, nowadays they are eing replaced by DDT, which is proving uperior, sometimes considerably superior, n destroying pests formerly controlled by rsenates. It is less harmful to mammals, nd seems to be less toxic to some, at any ate, of the beneficial insects. Apart from its nherent toxicity to a wide range of insects, DT has two other valuable properties—ts action as a contact and stomach poison, nd its persistence as both. Thus, under avourable circumstances, DDT films on urfaces may remain toxic for months to nsects alighting on them. The compound an thus act as a protective insecticide. Laid down on plant foliage in advance of an attack, it destroys the insects before they are able to do any damage. The persist-ence of a DDT film depends on several factors. A film of large particles is more per-sistent than one of small. The surface on which the film is deposited is important too, for certain surfaces such as the foliage of a number of plants are absorbent to DDT. In sunlight, DDT is slowly des-troyed by ultra-violet light.

Of the actual and potential disadvantages of DDT, the first is that how far the per-sistent properties of the compound increase its danger to beneficial insects is not known. Secondly, against a number of insect species, DDT is not effective, and it is some-times slow-acting against other insects, though highly toxic to them. Thirdly, it is not entirely harmless to mammals, and is thus not safe to use in any quantity in kitchens and food stores. It is for these reasons that DDT has not replaced a num-ber of the older plant insecticides.

DDT and Plant Insecticides

Of household insecticides, pyrethrum is still the most important. Its high toxicity to all household pest insects (DDT is in-effective against cockroaches and crickets) and rapid knock-down effect, combined with its non-toxicity to mammals, are ideal qualities. A mixture of pyrethrum with a low concentration of DDT is now some-times used. Pyrethrum gives a rapid knock-down, and DDT a persistent effect, and each seems to enhance the other's toxi-city.

The control of aphids (green-fly and black-fly) is an important problem in agri-culture, and DDT has usually proved un-reliable and less effective against them than the plant insecticides nicotine and derris. How far these will be replaced by certain new synthetics such as hexaethyl tetraphos-phate, which are proving potent aphi-cides, remains to be seen. Derris was formerly the only safe insecticide for con-trol of certain beetle pests on vegetable crops, but DDT has proved superior against such important insects as Colorado, flea and mustard beetles. Derris sprays were also sometimes used to give a rather inefficient control of caterpillar pests, but for this pur-pose they have now been replaced by DDT.

The most valuable aspect of DDT is that it is the first insecticide to be discovered that has proved capable of dealing with the adult mosquito and other insect vectors of disease. During the 1939-45 war, immense areas in tropical countries were covered with DDT dust to destroy these insects. Dusting and impregnation of clothing with DDT has eliminated the danger of epidemic diseases carried by fleas and lice. Though for many reasons DDT is a more efficient material for control of many insect pests than any previously used, in a number of fields it has not replaced the older insecti-cides, and this fact serves to show that no one insecticide is the complete answer to the problem of insect-pest control.

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VOL. CL SEPTEMBER 18, 1948 No. 3578

Medical Centres

THE interim report on health centres by a Committee of the British Medical Association (see p. 367) will be generally welcomed as a valuable and timely statement by what has been referred to as "the most highly trained and expensive profession connected with the health services." The timeliness of the report is increased because the Minister of Health has apparently modified his attitude towards the preparation of plans for health centres. An official circular, that was interpreted as discouraging active steps by local authorities to create such centres, was followed by a later communication that gave them greater encouragement.

To pharmacists one important outcome of the report will lie in the corrective it may administer to a regrettable tendency—noted by the secretary of the Pharmaceutical Society (Mr. H. N. Linstead) at Brighton (see *C. & D.*, September 11, p. 352)—to apply the term "health centre" to an "inferior organisation," meaning, in that context, a medical-aid society taken over by a local authority. The report recognises, too, that "in many cases the most efficient pharmaceutical service will be obtained from the chemists' shops in the district." This finding will be appreciated by those who see chemists' shops doomed by the National Health Act, in which pharmaceutical services are specified among numerous purposes for which a local authority may make provision under the "duty" laid upon it of setting up health centres. Certainly the report makes little suggestion of pharmaceutical departments as a major component of health centres. If the viewpoint of the B.M.A. gains acceptance, therefore, pharmacists with shops will have less to fear in the immediate future from the setting up of health centres than many of them have recently been showing. They may, indeed, have something to gain, for the fundamental principle embodied in the report is the integration of group surgeries with local authority clinics. If, in the buildings that house both, there is no pharmacy department and no space for storing "clinic" foods and medicaments (it does not appear to be in the accommodation listed in the report), what more logical than that the whole of the distribution of pharmaceutical supplies should return to the shops?

In the long run, however, chemists' position will be affected by the implied principle that individual practice by doctors should disappear. For many existing locations of pharmacies are governed by proximity to a doctor's surgery. If the general practitioners of the future are all housed in centres, while chemists remain scattered, those nearest the centre will gain and those more remote will suffer loss, irrespective of whether a pharmacy exists in the health centre itself. That result was, indeed, borne out by Mr. P. G. Flood at the Branch Representatives' meeting at Brighton on September 2. Mr. Flood has a business almost next door to a health centre (one that has, we believe, no pharmacist on its staff) and he reported that his business increased greatly when the centre reopened after the war. Naturally. But it would be interesting to know whether other chemists in the locality are equally reassured about its effect on them. During the coming period of experiment—and the report concludes that "early experiment is advisable" — pharmacists must continue to watch developments as closely and jealously as they have regarded the taking-over of the medical-aid societies. They cannot, of course, frustrate a universal social advance, but they can act promptly to prevent inequitable practices from gaining general acceptance and, on the other hand, they can adapt themselves to a progress that is orderly.

Scientists at Brighton

THE fact that the British Association's meeting in Brighton (see p. 367) followed immediately after the Pharmaceutical Conference in that town calls to mind that the early meetings of the Conference were usually held in the same centre and at about the same time as the annual meeting of the scientists. The similarity of timing was not entirely accidental: at Newcastle-on-Tyne, on September 2, 1863 (the last day of the British Association's meeting there in that year), the late Mr. H. Deane, F.L.S., presided at a meeting of pharmacist members of the British Association at which he said "If we could have a friendly gathering at the time of the meeting of the British Association, or some other time, a much greater number might be found to take interest in the science and art of our trade than at present do."

Since then the two organisations have progressed along their own roads, but the deliberations of the British Association may still provide interesting and profitable reading to pharmacists. In a classical presidential address to the chemistry section, Sir John Read warned its members against the possible dangers of specialisation in leaving no opportunity to view the outer world on which science depends. An analogy may be drawn in the principle emphasised by Miss M. C. Burr when, in proposing a vote of thanks to the Conference chairman this year, she said that "a pharmacist must be an all-rounder." Like the chairman of the Pharmaceutical Conference (see *C. & D.*, September 4, p. 310), Sir John stressed the need for young chemists to study mathematics and physics, and added that, without biology [one of the subjects, of course, of the pharmaceutical syllabus] a chemist's view of science is unduly restricted. Thus the routes taken by the two bodies are shown to be not divergent but still parallel.

Sir John Tizard compared, correctly in some ways, the organisation of the chemical industry with that of the Armed Services — at the top are carefully selected highly-trained professional men (Chiefs of Staff) who have "gained experience in a hard school," and on lower levels, research scientists, production scientists and production engineers. When the difficulties of manufacturing in the "front-line," however, are borne in mind, his unfavourable comparison of the early methods of producing penicillin in Britain with the methods evolved in the U.S.A. at about the same time seems a little harsh.

A Local Victory over Mosquitoes

A SURVEY of new maleria control methods in Cyprus issued recently by the Central Office of Information describes measures undertaken by the government of Cyprus during the last four years to eradicate the mosquito. The work was given prominence at a Ross Jubilee exhibition held recently in London to commemorate the fiftieth anniversary of the finding of the malaria parasite in the mosquito. Draining of certain marshes in Cyprus began as far back as 1878 in the early days of British administration of the island. Sir Ronald Ross himself visited Cyprus in 1913, with the result that a more intensive draining of marshes, oiling of streams and planting of trees was carried out. Some degree of control was in this way established over the *Anopheles sacharovi* which breeds in swamps, but the measures were less successful with *Anopheles superpictus,* which breeds largely in shingly streams. The control measures were localised, however, and infiltration from uncontrolled districts continued.

In 1945 a new plan was introduced with the object of destroying all indigenous mosquitoes. The island was divided into three zones, one to be tackled in each of the years 1946, 1947 and 1948. The larvæ were to be destroyed in their breeding places during the "spring rise" and the summer, and the adults during hibernation. Standard insecticides were to be used—at first oil, later a solution of DDT in oil. The plan has been carried out according to schedule and reports from the first two zones to be treated have been satisfactory in every way. *A. sacharovi* is no longer traceable and final operations against the *A. superpictus* are in progress. Re-invasion will be prevented by "disinsectisation" of ships and aircraft visiting Cyprus.

British Pharmaceutical Conference

BRIGHTON 1948

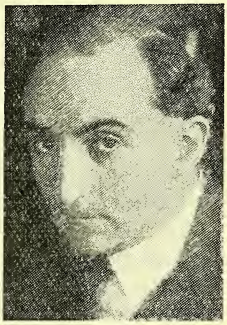
AUTHORS OF SCIENCE PAPERS

CONFERENCE PERSONALITIES

Mr. D. Simmonite, Ph.C., A.R.I.C., co-author of a paper on para-aminosalicylic acid, is deputy research and developments manager at Herts Pharmaceuticals, Ltd. He trained at Manchester University, holding during this time the Manchester Pharmaceutical Association's scholarship. He was awarded the University's silver medal on the results of the course.

Mr. K. H. Oberweger, B.Pharm., Ph.C., co-author of an article on para-aminosalicylic acid, has been working for some months on problems connected with chemotherapy as a research pharmacist with Herts Pharmaceuticals, Ltd. He graduated in June 1946.

Mr. W. Mitchell, B.Sc., Ph.D., F.R.I.C., part author of a paper dealing with processes of manufacture of dry extracts of cascara and krameria, is chief chemist to Stafford Allen & Sons, Ltd., London. After studying at Heriot-Watt College, Edinburgh, he graduated in 1933, and in 1939 was awarded his Ph.D. for research on the alkaloids of *Duboisia myoporoides*. Before joining Messrs. Stafford Allen, Dr. Mitchell worked with T. & H. Smith, Ltd., Edinburgh, specialising on alkaloids and plant principles. His work has now extended to essential oils, perfumery synthetics, and insecticides. Dr. Mitchell, who has published numerous scientific papers, is a member of the alkaloid and alkaloidal salts subcommittee appointed by the British Pharmacopœia Commission, and is secretary of the newly formed fine chemicals group of the Society of Chemical Industry.

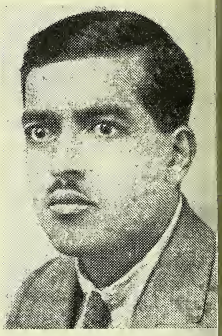


Mr. J. E. Page, Ph.D., B.Sc., F.R.I.C., who is part author of a paper on the pharmacology of 3:5 diiodo-4-pyridone-N-acetic acid, is in charge of the physical chemistry subdivision, biochemistry unit, the research division of Glaxo Laboratories, Ltd., Greenford. He joined the company in 1939. Dr. Page is a member of the council and secretary of the physical methods group of the Society of Public Analysts. Dr. Page was formerly a research student at Cardiff technical college.

Mr. M. E. Fielding, B.Pharm., Ph.C., part author of a paper with Dr. Page (see above), graduated B.Pharm. (London) in 1947, from Nottingham University, and obtained his Ph.C. diploma the same year. He has been engaged in pharmacological work in the research division of Glaxo Laboratories, Ltd., for the past twelve months.

Mr. C. W. Ballard, B.Sc., A.R.I.C., Ph.C., author of a paper on the colorimetric determination of propamidine, is assistant chief analyst to May & Baker, Ltd. A former Leverhulme and Greenish Memorial scholar, he passed the Pharmaceutical Chemist qualifying examination in 1920, winning four silver medals as well as the Pereira medal.

Professor N. A. Qazilbash, M.Sc who presented a paper on Indian Santonica, is chairman of the department of botany, Islamia College, Peshawar, Pakistan. Work done by Professor Qazilbash on Indian pharmaceutical plants has resulted in Kurram artemisia and Baluchistan ephedra being exploited commercially. He has published several papers.



British Pharmaceutical Conference

BRIGHTON 1948

SOCIAL AND CIVIC SIDE

CLOSING SESSION

At the closing session, held in the banqueting room on Friday afternoon, Dr. Norman Evers, who presided, was supported on the platform by local Conference officials, members of the Conference Executive, Council members and officers of the Pharmaceutical Society, and distinguished overseas visitors.

Secretary's Report

Mr. H. Treves Brown (joint secretary) presenting the annual report of the Conference, said the success of the second postwar provincial meeting of the Conference justified the belief that those who carried out original pharmaceutical investigations continued to appreciate the opportunity afforded by the Science Sessions for the reading and discussion of papers. In addition to members, honorary members and student associates of the Pharmaceutical Society, and members of the Pharmaceutical Society of Northern Ireland, the Conference included seventy-one members elected by the Executive. He referred with regret to the death of Mr. D. L. Kirkpatrick (late secretary, Pharmaceutical Society of Northern Ireland), and of Mr. W. J. Uglow Woolcock, C.B.E. (local secretary at meetings of the Conference held in London in 1913 and 1923). During the past year the Executive had considered how pharmaceutical research could most effectively be organised. At a time when research in chemotherapy was being successfully conducted on an unprecedented scale it was clear that pharmacy must play its part by ensuring that new and valuable remedies were available in the most efficient forms. The Council of the Society had invited the Executive's views on the matter, and certain suggestions had been put forward that would no doubt be the subject of discussion during the coming year. Twenty-five research papers had been submitted for the Conference and twenty-three accepted for presentation. During the year the Council of the Society had placed at the disposal of the Executive a sum of up to £500 to be used for furthering the work of the Conference. The Council had approved the proposal of the Executive to use the money to facilitate the attendance of young members, other than student associates, by providing them with free books of tickets and refunding their railway fares. Twenty-eight members under thirty years of age (with an allowance for the time spent in the Services during the recent war) had taken advantage of the offer, and the Executive recorded warm appreciation of the Council's generosity.

Conference Officers

The Executive had nominated the following officers for 1948-49: *Chairman,* Dr. N. Evers; *Vice-presidents,* Messrs. E. Saville Peck and C. A. Hill; *Vice-chair-*

en, Messrs. F. W. Gamble, R. R. Ben-ett, C. H. Hampshire, F. W. Crossley-olland, H. Deane, H. Humphreys Jones, . R. Melhuish, T. E. Wallis, H. Brindle nd B. A. Bull; *Treasurer,* Dr. G. R. oyes; *General Secretaries,* Messrs. H. reves Brown and H. G. Rolfe; *Other lembers of Executive,* Messrs. H. Berry, . Davis, A. G. Fishburn, F. Hartley, T. Iarns and A. D. Powell, with Miss M. A. urr and Messrs. E. A. Brocklehurst and F. McNeal nominated by the Council the Pharmaceutical Society. The fol-wing would be *ex-officio* members: The resident of the Pharmaceutical Society of reat Britain (*president*), the presidents the Pharmaceutical Society of Ireland nd of Northern Ireland, the chairman of e Scottish Executive of the Pharmaceu-cal Society of Great Britain, the chair-an of the local committee, and the local ecretary.

Adoption of the report was moved by HE PRESIDENT OF THE PHARMACEUTICAL OCIETY (Mr. H. C. Shaw), seconded by e immediate past-president (MRS. J. K. RVINE), and carried unanimously.

reasurer's Report

DR. G. R. BOYES (treasurer), presenting is report, said income from subscriptions aid by elected members was £76, and in ddition a composition fee of £25 had een received from the Pharmaceutical So-iety of Northern Ireland. The general xpenses of the Conference (£564) had een included in the financial statement resented at the Pharmaceutical Society's nnual meeting in May. The report was dopted on the motion of MR. H. C. HAW, seconded by MRS. J. K. IRVINE.

A vote of thanks to the Mayors of righton, Hove and Lewes, and to the ocal committee, was moved by MR. P. A. RADY (president, Pharmaceutical Society f Ireland), who said that the great suc-ess of the Conference had been due in o small measure to the way members had een received in "this lovely locality." MR. . H. GOUGH, seconding, said he could not emember a Conference at which all the rrangements had been so well carried out. The motion was carried with acclamation.

THE MAYOR OF BRIGHTON and the MAYOR OF HOVE responded.

MR. DONALD HUDSON, speaking for the ocal committee, said that when at Tor-quay in 1947 he had invited the Confer-nce to visit Brighton in 1948, he had poken of the welcome members would re-eive from the town. He hoped the reality had lived up to the promise. He then paid tribute to the work done by the members of the local executive committee (Messrs. C. Beckwith (entertainments), C. V. Bram-well (treasurer), S. S. Howard (sports), E. A. Jensen (catering) H. B. Mackie and Arch. Wilson (secretary), and to the ladies' committee led by Mesdames Mackie and Hudson. He also thanked Messrs. W. J. Bush, J. Carter and J. E. Vickers who had manned the Conference office, and all the local workers who had contributed so much to the success of the Conference.

The election of the officers and Executive members was moved by MR. A. J. JONES and seconded by MR. T. C. DENSTON, who welcomed two new members, Messrs. A. D. Powell and A. G. Fishburn. The motion was carried. THE CHAIRMAN said the books from the Bell and Hills fund had not yet become available, and he therefore made a token presentation of a copy of the British Pharmacopœia, 1948, to Mr. D. W. Hudson as representing the Brighton and Hove Branch. Mr. Hudson expressed thanks. The chairman then pre-sented to Dr. G. R. Boyes a plaque to be attached to a bookcase (not yet completed) in commemoration of his eighteen years' service as a Conference general secretary. He described Dr. Boyes as a man of three parts—pharmacist, chemist, medical man. DR. BOYES, who was greeted with pro-longed applause, paid tributes to those who had been associated with him.

Invitation to Blackpool

MR. T. A. DURKIN, Blackpool, on behalf of the mayor of that town, and of the Blackpool Branch of the Society, invited the Conference to meet in Blackpool in 1949, assuring members that they would receive "a hearty Lancashire welcome." PROFESSOR H. BRINDLE spoke in support of the invitation. MR. J. MCGREGOR (presi-dent, Pharmaceutical Society of Northern Ireland) moving acceptance, described the Brighton Conference as happy and hospit-able, but said that the north, too, was noted for its hospitality. DR. J. M. ROW-SON seconded and the motion was carried.

A vote of thanks to the chairman was proposed by MR. B. A. BULL, who said Dr. Evers knew "everything about something and something about everything." He also thanked Mrs. Evers, who had ably sup-ported her husband at Conference func-tions. The vote of thanks was seconded by DR. H. DAVIS and carried with applause. DR. EVERS responded.

British Pharmaceutical Conference
BRIGHTON 1948

SCIENCE SESSIONS

SCIENCE PAPERS AND DISCUSSIONS

[*Continued from* THE CHEMIST AND DRUGGIST, *September* 11, *p.* 354]

Sources and Testing of Pyrogen

An abstract of the paper was given in last week's issue (p. 354).

Discussion

The Chairman congratulated Mr. Wylie, who read the paper and received an ovation on mounting the rostrum, on having made his first contribution to a Conference science session. He understood that the paper dealt with only the early work of a comprehensive investigation. Mr. Whittet asked whether *Penicillin notatum* and *Streptomyces griseus* had been tested as possible sources of pyrogen.

Mr. H. O. J. Collier, Ware, suggested that there were probably a great many chemical species of pyrogens. The results quoted for *Pseudomonas aeroginosa* might not necessarily apply to others. He thought the tests recorded in the paper did not altogether support the conclusion that neither storage nor heat had the effect of removing pyrogen from solutions. Storage had been shown to have the effect of removing pyrogens in some instances.

Dr. Hartley said experience in other laboratories confirmed that some pyrogenic responses did disappear on storage. Some of the results included in the paper suggested the same conclusion. Mr. Davies, Manchester, thought that the differences noted between the pyrogen-producing properties of Gram-positive and Gram-negative bacilli might be due to different rates of growth. Questions were asked by Messrs. C. Adams, Leicester, G. P. Weil, Brussels, G. F. Somers, Greenford, and R. M. Jenner, Loughborough.

Mr. Wylie, replying, said the use of a 4-cm. Seitz filter had been found a good method of removing pyrogens. A medium had been chosen in which all of the organisms tested would grow. No work had yet been done on the purification of pyrogen. In the tests, Gram-negative bacilli had produced much greater quantities of pyrogen than had Gram-positive, although generally there was no great difference in their rate of growth. *Penicillin notatum* and *Streptomyces griseus* had not been tested; the samples of penicillin tested had produced no pyrogen.

Purgative Activity of Senna Extracts

By H. O. J. Collier, E. C. Fieller and Sheila K. Paris

[Abstract]

The appearance of the fæces to the eye applied as a criterion of purgative activity in laboratory mice, has been used for studying the purgative activity of senna extracts. Oral administration of senna extracts to mice causes unformed fæces to be passed, and the ratio of unformed fæces (UFF) to total fæces (TF) passed is related to the dose and to the time after administration. Oral administration of senna extracts to mice causes a reduction in the total number of fæces and in the number of formed fæces passed. The reduction in the number of formed fæces (FF) is related to the dose and to the time after administration. The intravenous administration of senna extract to mice has no observable purgative effect at the maximum dose tolerated. The ratio of UFF to TF passed between two and a half and ten hours after oral administration of senna extracts appears to provide a satisfactory criterion of the activity of the preparation. A method of assay based on the UFF/TF ratio over the two and a half to ten hour period, in which the test preparations were compared with a laboratory standard extract of senna, has been used satisfactorily in twenty-six tests. Senna extracts known to be inactive in man were found to possess low activity in mice. Extracts expected to be active in man were highly active in mice. An appendix by D. M. Bellis gives a comparison of the bio-assay and the chemical assay of senna, which indicates that, with a reservation that oxidation during storage is not measured by the chemical assay, the chemical assay gives a good indication of the cathartic activity of any preparation of senna. (From the Pharmacology Laboratory, Allen and Hanburys, Ltd., and the Mathematics Division, The National Physical Laboratory).

DISCUSSION

DR. EVERS said that what especially interested him, as a chemist, in the authors' paper, was that the chemical tests had been shown to be a reliable method of determining activity.

MR. A. H. FENTON, Mansfield, thought the results given on intravenous injection would have been more convincing if carried out on a larger number of mice than three. In his own experience certain mice were specially sensitive to senna, its effect on them being to make them pass no faeces at all. MR. N. H. ALLPORT was disappointed that work had been done only on senna and not also on cascara or other purgatives.

DR. J. W. FAIRBAIRN, London, congratulated the authors on producing the first attempt in this country to evaluate the pharmacological effect of a purgative. He raised a number of chemical questions into which Mr. Collier, who read the paper and replied to questions, said he preferred not to enter on the present occasion. He agreed that some mice were "troublesome" under senna, but said these had been removed from the experiments. The tests had been made on senna alone because that was the practical problem that had presented itself.

Diet and Insulin-Sensitivity in Mice

BY HENRY ROBERT ROWLINSON AND JOAN MARGARET LESFORD

[ABSTRACT]

FROM statistical treatment of the results of insulin assays carried out during the past year, values have been obtained for the slope and weight of each test, and these have been used to compare the sensitivity of animals fed on two different diets but otherwise under the same experimental conditions. The mean slope and weight obtained from groups of twenty tests on mice receiving a bread diet have been compared with those obtained from mice receiving a tube diet. Evidence is given suggesting that mice fed on a diet consisting principally of carbohydrate are the most sensitive and suitable for use in the assay of insulin. A period of starvation of not less than fifteen hours is also recommended. (From the AB Insulin Assay Laboratories).

DISCUSSION

DR. HARTLEY, who was temporarily in the chair, said that the paper, which was read by Mr. Rowlinson, placed on record valuable data, as the mouse-convulsion method for the assay of insulin was generally used in Great Britain. MR. L. G. MATTHEWS, London, inquired about the comparative value of tests on mice compared with tests on rabbits. Mr. Rowlinson said that rabbit tests had been tried out exhaustively in an attempt to produce a method that showed narrow fiducial limits of error. Mice, however, were now used almost universally as they were more suitable for the statistical methods involved. The method had been shown to be satisfactory in independent assays on nine batches of insulin of unknown strength.

Para-Aminosalicylic Acid

PART I. ANALYTICAL AND PHARMACEUTICAL STUDIES

BY K. H. OBERWEGER, D. E. SEYMOUR AND D. SIMMONITE

[ABSTRACT]

THE paper summarises results of investigations carried out to obtain quantitative data on the decomposition of the acid and its sodium salt. A method of synthesis based on direct carboxylation of *m*-aminophenol was examined; it became apparent that decarboxylation might play a major role in the mechanisms concerning its decomposition. The decarboxylation of both the free acid and its sodium salt has therefore received prior attention. It is hoped later to report upon studies of oxidation. Experiments were outlined showing that decarboxylation can be quantitatively measured by direct absorption of the carbon dioxide evolved. A suitable method of assay is described. Para-aminosalicylic acid in solution is declared to be relatively unstable, particularly when subjected to elevated temperatures and in acid media. The sodium salt, in aqueous solution, is relatively stable, and solutions can even be boiled without marked decarboxylation. Under the official sterilisation process (autoclaving) about 15 per cent. of the sodium salt in aqueous solution decomposes; such solutions are probably more safely sterilised by filtration methods. (From the research department, Herts Pharmaceuticals, Ltd.).

PART II. *In vitro* TUBERCULOSTATIC BEHAVIOUR.

BY C. L. GOODACRE, D. E. SEYMOUR AND B. W. MITCHELL

A SERIES of derivatives and analogues of *p*-aminosalicylic acid have been synthesised and their *in vitro* tuberculostatic activities against the H37 R.V. strain of *mycobacterium tuberculosis* have been determined.

While the study was in progress, American workers had also reported upon studies of a similar nature. The compounds were chosen as representative of the more readily available derivatives and analogues of *p*-aminosalicylic acid. They should be regarded as a preliminary group and give only initial indications as to the effects of simple variations in structure on activity. The tuberculostatic activity of a comprehensive range of compounds will be reported upon in a subsequent paper. The compounds under examination were dissolved in the culture medium and a suitable series of dilutions made. Each dilution was inoculated with 0.05 mils of an eight-day culture of *M. tuberculosis* H37, RV strain, adusted to contain 0.1 mgm., corresponding to 0.001 mgm. of bacilli per mil of medium. The minimum tuberculostatic concentration was determined after incubation at 37° C. for fourteen days. The results (tabulated in the paper) confirm that the particular configuration displayed by *p*-aminosalicylic acid is probably the most active of its possible isomers.

The papers were read by Mr. Simmonite.

Discussion

Dr. H. Davis, London, said the authors of the two papers had performed a great service. The Ministry of Health had had occasion to examine commercial preparations of the sodium salt of para-aminosalicylic acid, but by the method of assay then used it had been impossible to get analytical accuracy. The authors had converted a qualitative into a quantitative test. One thing the Government chemist had reported that was confirmed by the paper was that the colour of the solution should not be taken as an indication of marked decomposition. Para-aminosalicylic acid was one of the most important substances introduced into medicine, particularly as there was as yet no evidence of the organisms developing a resistance to it. Herein lay a great difference between the compound and streptomycin. The information supplied by the paper marked a great step forward by giving the pharmacist a *rationale* of sterilisation. Paradoxically, salicylic acid and *p*-hydroxybenzoic acid were commonly used as general preservatives, yet here was a similar substance that appeared to be almost specific. A later interpolation by Dr. Davis that the B.P. methods of sterilisation should not be slavishly followed was greeted with ironic applause.

Mr. R. E. Stuckey, London, said he had found in acridine derivatives that the basicity of the nitrogen had a direct bearing o its behaviour. He asked if there were a data correlating the physicochemical pr perties with the carboxyl group or t nitrogen atom.

Dr. F. Hartley, London, asked what w the chemical composition of material co mercially supplied as *p*-aminosalicylic aci By some syntheses there was evidence of tw isomers with varying toxicity, although b one method an irrevocable substance w obtained. The suggested assays would n differentiate between the two isomers, an no indication had yet been given of the pr cise chronic toxicities of various availab products. Another point was that th authors had concentrated on carboxylatio but ignored oxidation. He asked for detai of alkalinity of sodium *p*-aminosalicylat

Mr. T. D. Whittet, London, asked if th authors had tried heating with a bactericid as a means of sterilisation. He had found marked reduction of colour resulted whe the solutions included metabisulphite o were prepared under an atmosphere o carbon dioxide.

Dr. G. E. Foster, Dartford, asked hov the potential bromide solution had bee prepared. Preparation by boiling with bro mine-saturated sodium hydroxide gave, h found, different results from those obtaine by the pharmacopœial method.

Mr. G. E. Shaw, Runcorn, said that i was nearly always assumed that the metho of action of such compounds as p.a.s. wa a competition for a growth compound Tubercular organisms needed no adde growth medium and therefore a differen kind of action was indicated.

Mr. D. Simmonite, replying, agreed that the assay processes did not differentiate between isomers. The oxidation reactions were known to the authors, but had not been dealt with in the paper. The pure sodium salt yielded a white microcrystalline material of *p*H 7.4. Heating with a bactericide had not yet been tried but would be done. He had used metabisulphite and found that with it the colour remained much paler. Preparing under nitrogen or carbon dioxide had much the same effect.

Mr. Oberweger replied to some of the points raised by Dr. Hartley, and Mr. Seymour explained that the possibility of a *p*-hydroxy compound being formed had been apparent in the early stages of the investigation; a change-over had been made to preparation by carboxylation of meta-aminophenol, and the *p*-hydroxy compound had not been found in the resulting product.

(*To be continued*)

ritish Pharmaceutical Conference

BRIGHTON 1948

SYMPOSIUM SESSION

PRESERVATIVES IN PHARMACY

[*Concluded from* THE CHEMIST AND DRUGGIST, *September* 11, *p.* 333]

A LEAD was given to the discussion in the Symposium Session by the presentation of three papers on different aspects of the subject. Abstracts of the first and third were given last week. The second, given by MR. H. B. MACKIE, Brighton, was on "Preservatives in Galenicals." Mr. Mackie defined a preservative as any substance, condition or method that would prevent or retard undesirable changes, and warned against the use of a preservative that gave rise to excellent keeping properties at the expense of any other physical or therapeutic properties of the product. He followed with an outline of work done on the keeping properties of mucilage of acacia. There was general agreement that it was impossible to keep the B.P. preparation without the growth of moulds, which were always of the same types. There were different methods of preparation in various pharmacopœias. The B.P. used chloroform water as a preservative, the United States Pharmacopœia benzoic acid. The Swiss Pharmacopœia required the preparation to be heated to 100° on two successive days and kept under semi-sterile conditions. The American, German or Swiss preparations could be made from the washed or unwashed granulated gum. The French pharmacopœia required the gum to be dried at 40° and made into a very stiff mucilage without washing.

Acacia Mucilages Compared

For the investigations that were carried out, samples of mucilage of acacia were made according to the various pharmacopœial specifications. Others were made with double-strength chloroform water, or with sodium metabisulphite 300 parts per million (the American standard for the preservative in soft drinks). Only one preparation—that made by the U.S.P. method using the washed gum—proved stable after fourteen days. The B.P. preparation quickly became mouldy. Mr. Mackie suggested that, to make a mucilage with keeping properties, the U.S.P. method should be followed. The B.P. product was at the concentration where the greatest change in viscosity occurred, and was more viscous than any except that of the French Pharmacopœia. Work had been done to see whether syr. pruni serot. could be made to keep well if made with a lower concentration of sugar. The percolate was allowed to drop on to various combinations of sucrose, dextrose and glycerin, and the keeping properties of the products evaluated. Glycerin was found to be four times as effective, and dextrose twice as effective, as sucrose, so that by using glycerin the concentration of sugar required could be reduced.

Another field for inquiry was in the choice of the amount and strength of alcohol to be used in the manufacture of galenicals, especially concentrated infusions. The solvent effect was frequently produced not solely by the alcohol but by "a complex of many samples." The best preservative method was to have present in the final product nothing that could putrefy or ferment, rendering an added preservative unnecessary. Trouble was often caused by proteins, pectins, gums, etc. Thus the B.F., 1914, syrup of senna had to be raised to boiling point and squill preparations and injection of acacia and sodium chloride were similarly purified. The method might be applied consciously to devise new and improved products. Extract of belladonna was not an elegant preparation for incorporation in suppositories. In experimental work, belladonna leaf had been extracted by triple maceration, using just over 70 per cent. strength alcohol. The alcohol had been evaporated off under reduced pressure, the residue mixed with water, allowed to stand for twenty-four hours and filtered, giving a clear concentrated liquor. Dextrin had been added and the product painted on glass and subsequently dried. The method had resulted in the production of a dry, adaptable galenical that was not too deliquescent.

DISCUSSION

MR. T. D. WHITTET, London, said that sodium or potassium metabisulphite, used as a stabiliser originally for adrenaline,

now had wider applications, e.g., in injections of physostigmine, apomorphine, stibophen, etc., and, unofficially, in solutions of *d*-tubocurarine chloride. The brown colour which developed in injection of morphine on sterilisation could be prevented by the addition of 0.1 per cent. metabisulphite. 0.1 per cent. of metabisulphite would retard the caramelisation of dextrose and would prevent the darkening of salicylate solutions. He gave a warning that the product that was most stable chemically was not necessarily the most pharmacologically active. It was important, also, to avoid the use of preservatives that would interfere with biochemical tests. Mr. Whittet thought that eye drops should usually contain a preservative; a 30 per cent. solution of sodium sulphacetamide would actually grow moulds.

Mr. G. E. Davies, Manchester, suggested that, as the introduction of a needle into a sterile solution for injection might cause contamination, the presence of a bactericide rather than a bacteriostat was desirable. He had experienced difficulty in finding bacterial contamination in the oils that were normally used in preparing injections, and thought that the oils might possess a natural sterilising property.

Toxicity after Heating

Mr. H. S. Grainger, London, said that no growth of organisms had been observed after plating-out on agar solutions taken from bottles of eye drops made with Nipasept as preservative, which had been returned for refilling. A copious growth had been obtained, however, from a bottle that had contained eye drops with no preservative. He warned that sterilising eye drops by heating might produce toxic compounds; this had actually happened in his experience when a mixture of cocaine and homatropine had been sterilised by that method. A reaction like that of atropine poisoning was produced, though mouse and chemical tests had failed to show anything amiss.

Mr. G. E. Shaw, Runcorn, said that, in America, volatile antiseptics such as xylol, toluene and chloroform had been found inefficient. He suggested that a minimal amount of a preservative might stop bacterial contamination but an enzyme change that was not readily observable would take place in the solution.

Mr. R. W. Gillham, Leeds, said screw-cap liners and other materials bonded with glue were causing much trouble to manufacturers, as mould grew between the lin and the cap, particularly if the cap we domed. Methods he had tried to ove come the difficulty included baking t cap and liner at 150° C. for one hou fumigating with formaldehyde, and soa ing with dilute copper sulphate solutio none of them had proved entirely succes ful. The method finally adopted was cork the bottle, then cap it, thus preventin the liner from becoming moist.

Physicochemical Methods

Mr. A. R. G. Chamings, Horshan asked if physicochemical methods of ster lisation (such as radiation) had been use in Britain and suggested further investiga tion of the quaternary ammonium com pounds as preservatives. The use of poly thene discs, he said, avoided mould growt inside bottle caps.

Miss Gwendoline M. Byron, Birming ham, who received an ovation as she too her place at the microphone, said that i her hospital sodium benzoate and Nip products together had proved efficacious i preserving an emulsion of vitamins A an D, but had proved ineffective singly. I preparing various injections of sodium sul phadiazine, she had noticed that the contents of some ampoules were almost water-white while others were much darker i colour. The colourless batch developed a pink-orange colour on exposure to sunlight. Assays gave figures for the content of active ingredient slightly higher than in the original preparation. She asked whether other members of the Conference had had similar experience.

Mr. D. Stephenson, London, emphasised that all bacteriostats used in injections should be declared on the labels, particularly as many medical men objected to the use of these compounds. In the problem of mould growth in packed medicines, storage was a significant factor, for moisture droplets condensing on the top of the bottle might sometimes run back on to the surface of the liquid and form a layer that was largely water; in this spores might grow freely.

Mr. C. A. Long, Dagenham, suggested that bottle-cap manufacturers might with advantage experiment with the use of a rubber compound containing isopropyl para-cresol for use as cap-liners. Such a rubber compound was in use for providing sterile floors in hospitals, and it seemed to possess "ideal" resilience for use in bottle caps.

Mr. E. Adams, Leicester, appealed for e exploration of simple compounds as abilisers, etc., citric acid, for example, as an adequate anti-oxidant for fixed and latile oils, and prevented the darkening triethanolamine creams, he said. Sodium nzoate as an antiseptic was effective in 2 per cent. concentration, and a total of 5 gm. of the compound daily could be lerated.

Mr. J. C. H. Hanson, Hertford, mentioned the possible importance of hæmolysing effects which commonly used bacteriostats may possess. In his experience chlororesol in 0.1 to 0.05 per cent. concentration readily hæmolysed human red blood orpuscles. The compound also affected rythrocyte sedimentation rates when used reagents for E.S.R. tests. Phenyl ercuric nitrate and chlorbutol had no æmolysing effect, but phenol at concentrations of 0.125 and 0.0625 per cent. had a ight hæmolysing effect.

nimal-tests Suggested

Mr. G. F. Somers, Greenford, said that sts could be devised to investigate on nimals the effect of including bacteriostats in solutions for intrathecal injection. Ie pointed out that iodine derivatives and ther compounds could be injected intrathecally into human beings with safety.

Mr. A. Axon, Dartford, had found etabisulphite to be a useful preservative or triethanolamine emulsions.

Mr. G. R. Page, Liverpool, said that here was scope for standardising tests for ssessing efficiency of substances used gainst mould growth. A number of fficial preparations, the keeping properties f which had been found to be poor, could e improved by adding a preservative.

Mr. N. H. Allport, London, recommended detailed study of chlorbutol, a preservative particularly useful in preparations such as eye lotions, in which avoidance of irritation was important. Difficulty in sterilising shives of cork in bottle caps, he suggested, was caused by surface tension effects preventing the active compounds from penetrating the cork. The difficulty would be overcome by dissolving the bactericides in alcohol or in water containing a sulphated fatty alcohol.

Mr. D. E. Seymour, Welwyn, said that in commercially available wool alcohols an acid-fraction had been found which could be removed by molecular distillation. When this was removed, the residual product formed stable emulsions; adding the distilled acid fraction to the preparation caused the emulsion to break.

Mr. E. G. Speakman, Birmingham, said that sterilisation of sulphanilamide powder by irradiation had proved at his hospital to be "not promising." The growth of a black mould in "ward mixture" had been avoided by substituting an equivalent amount of ammonium carbonate for the sal volatile. He had found chlorbutol unsatisfactory as a bactericide.

Mr. L. M. Spalton, Loughborough, warned against the possibility of toxic reactions to stabilisers, when incorporated in preparations to be applied locally. Chlorbutol as a preservative had, for example, caused a reaction in varicose eczema. Phenoxetol alone, and in combination with *p*-hydroxybenzoic acid esters was worthy of further investigation as a preservative against mould growth.

Professor H. Brindle, Manchester, had found that, though the esters of *p*-hydroxybenzoic acid were good preservatives for creams and ointments, they were of little use for aqueous galenicals; in fact, he had found the bacterial count of such preparations increased when those esters were added. Chloroform was good for preserving aqueous galenicals but, being volatile, it was liable to disappear rapidly. It was, moreover, subject to hydrolysis, particularly in alkaline solution.

Mr. J. R. Elliott, London, asked what stabiliser was used commercially in paraldehyde. The stability of oily calamine lotion made in "hospital" quantities, he said, had been improved by adding one part in 250 of Teepol.

Overdoses of Stabilisers

Mr. J. A. Myers, Bradford, said that, when considering preservatives for the tropics, the difference in fungal species, as well as difference in temperature and humidity should be borne in mind. He sought information on the maximum doses, and effects of overdoses of sodium metabisulphite, and chlorocresol, and on the time taken by liquor sterilisans, N.W.F., to sterilise instruments.

Mr. G. F. Somers, Greenford, said that the toxicity of adrenaline solution was not increased by adding metabisulphite. The maximum dose of chlorocresol could be investigated by animal experimentation.

Mr. W. Williams, Cardiff, called for a better definition of the terms bactericide, bacteristat, antioxidant, stabiliser, etc. He

suggested that there might be a synergistic effect between the esters of *p*-hydroxybenzoic acid and its sodium derivatives. The sodium derivatives sometimes were more active.

THE CHAIRMAN then called on the introductory speakers to reply. DR. H. DAVIS said that quaternary ammonium compounds, which were cationic detergents, suffered from the disadvantage as antiseptics that they were easily inactivated. The value of simple preservatives like benzoic and salicylic acids should not be overlooked. Sodium benzoate, for example, had been used successfully as a preservative of casein hydrolysate. He wondered if manufacturers added any preservative other than alcohol to concentrated infusions. Chlorbutol, he said, was anything but an innocuous substance. He thought that Mr. Seymour's information about the effect of a small acidic fraction of wool alcohols was particularly valuable. To Mr. Myers he said that liquor sterilisans had been introduced into the N.W.F. not as a sterilising fluid, but to maintain sterility. The choice of name for the preparation was not good.

Absent Antiseptic

MR. H. B. MACKIE said that the best antiseptic was the one that wasn't there, and suggested that improvements still had to be made in the technique of working in a sterile atmosphere. Propylene glycol probably made the most efficient aerosol.

MR. A. G. FISHBURN recommended tests for containers, and that official definitions of methods of closing such as "airtight" and "close seal" should be given. Investigations on the subject had been commenced in America. Standard storage tests should be included in the B.P. Occasional idiosyncrasy reactions to any stabiliser were to be expected. Replying to Miss Byron, he said that the darkening of sulphadiazine solutions appeared to be an oxidation reaction that could best be avoided by making the solution with air-free water and keeping under nitrogen. The reaction involved light sensitivity. He forecast that eventually medicaments would be made with a synthetic excipient which, being standardised and inert, would not involve stabilisation problems.

During the Conference Mr. G. A. Nixon, M.C. (Ayrton, Saunders & Co., Ltd., Liverpool) informed friends and colleagues of his engagement to Miss Sheila Noreen Elsworth, Caldy, Ches.

EXPORTS TO TURKEY

SHORTAGE of dollars and other hard currencies in Turkey has resulted in an increased demand for many classes of pharmaceutical products from sterling countries. Domestic production is small and confined to a few simple medicinal preparations. Specialities imported into or sold in the country are required to be licensed by the Ministry of Hygiene. Once a health licence is granted, imports are usually authorised without delay and foreign exchange granted. A separate licence is required for each product, but it can be used for an indefinite number of consignments. Usually some four to six months elapse from the date of the initial application and the issue of the licence. It is advisable for a manufacturer's agent or representative to visit the Ministry to clear up promptly any difficulties that may arise. Applications for licence must include the full name and formula of the preparation and be accompanied by five samples, five empty containers and translations of the manufacturer's sales and other relevant literature. Other information required includes the f.o.b. and c.i.f. prices, and details of packing and weights. With each application there are payable a registration fee, stamps, analysts' fees, etc., amounting to about £10. The licences are given in the name of the agent-distributor. Penicillin and streptomycin may be imported without health licence, but are price-controlled.

World Mineral Industries

No. 15—Potash

THE following table gives principal producers of potash and their output (in long tons).

PRODUCING COUNTRY	1938	1941	1944
Palestine—			
Muriate	57,200	100,002	103,391
France—			
Sylvinite, etc.: Over 50% K_2O	573,202	(a)	(a)
Germany—			
Kainite, sylvinite, etc. ...	14,337,816	14,708,000	(a)
Poland—			
Kainite	118,228	(a)	(a)
Sylvite	420,593	(a)	(a)
Spain—			
Carnallite, sylvinite, etc. ...	48,789	309,964	668,162
United States—			
Muriate, etc. ...	477,629	881,066	1,409,373

(a) Information not available.

(*By courtesy of the Imperial Institute.*)

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex Street, W.C.2, Sept. 15

THE home trade in PHARMACEUTICAL CHEMICALS has been on a fair scale during the past week with more buyers coming into the market. Supplies for both domestic and export markets are now being produced in adequate quantities, with the exception of a limited range of products, such as BISMUTH SALTS which are still difficult, particularly domestic supplies. Prices, generally, are steady. Prices of EMETINE BISMUTH IODIDE have been shaded by 5s. per oz. bringing the salt into line with the reduction in the HYDROCHLORIDE reported last week. The new rates for emetine bismuth iodide are from 92s. to 96s. 6d. per oz., according to quantity.

Crude Drugs

Although business in CRUDE DRUGS continues slow, rather more inquiry has been received during the last few days from domestic consumers. Re-export trade is still retarded by currency difficulties. More export inquiry is reported for AGAR; we understand that new-crop material, now afloat, is likely to be offered at about the prices now quoted for spot goods. Spot quotations for CANADA BALSAM are lower and a further easing of prices of TOLU BALSAM is reported. Sumatra BENZOIN is now offered at from £14 per cwt. Quotations for Chinese CANTHARIDES are lower. Business has been done in CARDAMOMS at steady rates. CLOVES is a firmer market. A small quantity of Portuguese ERGOT has been on offer at 5s. per lb., spot; shipment values are steady. After a short period of firmness, the IPECACUANHA market has again weakened owing to the falling-off of trade. LIQUORICE has been a dull market. A parcel of selected Syrian liquorice root has been offering at 40s. per cwt., delivered; quotations for Anatolian root are unchanged. There has been a good inquiry from India for Brazilian MENTHOL; home-trade demand for this product has been on a routine level with prices rather lower on the week. A fair business has been done in the better grades of Alexandrian SENNA pods. New-crop Tinnevelly sennas are now offering from source. The ESSENTIAL OILS markets continue quiet. ANISE is again easier on spot; October-November shipment is quoted at 4s. 8d. per lb., c.i.f. Prices are lower for Java CITRONELLA and Singapore PATCHOULI OILS. Prices of French oils are unchanged, but the possibility of a further devaluation of the franc is causing some uncertainty as fairly substantial stocks of these oils are held by dealers. ALMOND OIL, B.P., is in little demand and prices have declined, owing to OLIVE OIL now being offered at low rates.

U.S. Drug and Chemical Report

New York, September 10

INCREASES in the prices of BISMUTH SALTS were announced by a major producer during the week: SUBCARBONATE was advanced 20 cents per lb. to $2.80 per lb.; SUBGALLATE by 30 cents to $2.75; and SUBNITRATE by 15 cents to $2.30. Competitive conditions in TARTARIC ACID and CREAM OF TARTAR have resulted in price reductions this week. Tartaric acid is reduced by 4 cents per lb. to 37½ cents in 10,000-lb. lots while cream of tartar is reduced 3 cents per lb. to 32-33 cents per lb., according to quantity. A second advance in PODOPHYLLIN has been noted and the quotation now stands at $14.25 per lb. against $14.00 a week ago. A strong tone is reported from the CRUDE DRUGS market though activity remains very limited, especially in the case of forward trading. European exporters of such items as ORRIS ROOT, BELLADONNA LEAVES, JUNIPER BERRIES and GENTIAN are understood to be offering material at more favourable prices than of late, although quotations have not yet been amended here. There were sharp advances in the prices of CAPSICUMS while African KOLA NUTS were also raised fractionally. GAMBOGE was reduced 15 cents per lb., to $1.20 per lb. for pipe material; BENZOIN was marked down 4 cents per lb. to $0.39 per lb. on the inside. The ESSENTIAL OILS market has turned quieter again and several items were marked down in price last week. WORMWOOD and Florida ORANGE were both reduced 5 cents per lb., the former to $7.35 and the latter to 95 cents per lb. on the inside. AROMATIC CHEMICALS were featured by a $1.30 reduction in CITRONELLYL ACETATE, to $3.95 per lb.

Pharmaceutical Chemicals

ACETANILIDE.—Quotations for 1-cwt. lots in kegs are now at 2s. 3d. per lb. for crystals and 2s. 4d. for powder.

ACETIC ACID.—The controlled maximum prices per ton are: B.P. (33 per cent.), 1 ton or over, £36; 10 cwt. but less than 1 ton, £37; 4 cwt. but less than 10 cwt., £38, delivered buyer's premises. 80 per cent., pure, is £30 per ton and 98-100 per cent. (commercial glacial), £43 per ton more than the rates for B.P. For deliveries of less than 4 cwt. there is no maximum price.

ALOIN.—Current quotations are around 24s. per lb.

ASPIRIN.—In good supply. Makers' quotation for POWDER is 3s. 5½d. per lb. in 10-cwt. lots and 3s. 7d. per lb. in 1-cwt. lots. Scheduled rates per lb. for quantities of 28 lb. and under 1 cwt. are: 4s. 6d.

(1-lb. containers); 4s. 5d. (2-lb.); 4s. 4½d. (4-lb.); 4s. 3½d. (7-lb.); 4s. 3d. (14-lb.); 4s. 2d. (28-lb.). Net one month. Rates per 1,000 for bulk supplies of TABLETS are: Under 5,000, 3s 9d.; 5,000 and over, 3s. 7d.; 10,000, 3s. 6d.; 25,000, 3s. 4d.; 50,000, 3s. 3d.; 100,000, 3s. 2d.; 250,000, 3s. 1½d.; 500,000, 3s. 1d.; 1,000,000, 3s.

BISMUTH SALTS.—Supplies are still difficult, particularly for the home trade. Makers' prices per lb. for 1-cwt. lots are as follows: CARBONATE, 14s. 10d.; CITRATE, 12s. 6d.; SUBNITRATE, SALICYLATE, 12s. 9d.; SUBGALLATE, 15s. 9d.

BROMIDES.—A routine business reported. Current resellers' rates per lb. for POTASSIUM in quantities of 28 lb. to 1 cwt. (containers in brackets) are as follows: 3s. 5½d. (1-lb.), 3s. 4½d. (2-lb.), 3s. 4d. (4-lb.), 3s. 3d. (7-lb.), 3s. 2½d. (14-lb.), 3s. 1½d. (28-lb.). In bulk, makers quote 1 cwt. at 2s. 7d. per lb. and 5 cwt. at 2s. 6d. Powder is 2d. per lb. extra. SODIUM is 1½d. per lb. less than above rates; AMMONIUM is ½d. per lb. more than above rates. Terms are net; carriage paid on 1-cwt. lots in U.K.

CARBROMAL.—An improvement in supplies. Prices are in the region of 35s. per lb. for 56-lb. lots.

CODEINE.—Current prices per oz., in the home market, are: ALKALOID, ½ oz., 51s. 9d.; 1 oz., 49s. 3d.; 2 oz., 47s. 9d.; 3 oz., 47s.; 4 oz., 46s. 9d. HYDROCHLORIDE, ½ oz., 46s. 4d.; 1 oz., 44s.; 2 oz., 42s. 6d.; 3 oz., 41s. 9d.; 4 oz., 41s. 6d.; PHOSPHATE, ½ oz., 40s. 9d.; 1 oz., 38s. 3d.; 2 oz., 36s. 9d.; 3 oz., 36s.; 4 oz., 35s. 9d. HYDROBROMIDE and IODIDE as ALKALOID; SULPHATE as HYDROCHLORIDE.

GLYCEROPHOSPHATES. — Makers' list prices per lb. are as follows: CALCIUM SOLUBLE, 10s. 6d.; IRON SCALE, 11s. 9d.; ACID, 20 per cent. (B.P.C.), 8s. 3d.; MAGNESIUM (INSOLUBLE), 10s.; MAGNESIUM (SOLUBLE), 19s. 3d.; MANGANESE, 24s. 3d.; POTASSIUM, 50 per cent., 5s. 11d.; 75 per cent., 7s. 9d.; SODIUM, 10s. 9d.; 50 per cent., 4s. 7d.; 75 per cent., 5s. 8d. Quantities of 7 lb., 6d. per lb. less than above rates; other quantities in proportion.

HYDROCYANIC ACID.—B.P.C. (Scheele's) is quoted at 1s. 5½d. per lb. and B.P. at 1s. 1½d. per lb.

HYPOPHOSPHITES.—Makers' rates per lb. for 7-lb. lots are: AMMONIUM, 9s. 3d.; BARIUM, 6s. 3d.; CALCIUM,, 4s. 11d.; IRON, 9s. 4d.; MAGNESIUM, 7s. 9d.; MANGANESE, 8s. 5d.; POTASSIUM, 6s. 1d.; SODIUM, 5s. 7d. HYPOPHOSPHOROUS ACID in quantities of 6 Winchester quarts is 6s. 2d. per lb.

IODINE PREPARATIONS.—Makers' prices per lb. for the home trade are as follows: POTASSIUM IODIDE, B.P.—1 cwt., 11s. 1d. SODIUM IODIDE, B.P.—28 lb., 12s. 1d. IODOFORM, B.P.—28 lb., powder, 15s. 7d.; crystals, 17s. 7d. RESUBLIMED IODINE, B.P.—1 cwt., 12s. 8d. Orders of 28 lb. and upwards may be made up with assorted preparations at schedule rates. Package are extra. Contracts may be booked for 1 cwt. and over of assorted preparations for delivery as required within three months with rise and fall clauses. Special rebate of 4d. per lb. allowed on quantities of 5 cwt. in one delivery or on contracts for delivery within three months.

LACTATES.—Current quotations are as follows: CALCIUM, 2s. 2½d. to 2s. 10½d. CALCIUM SODIUM, 3s. 3d. to 3s. 11d.

LACTOSE.—Quotations are from £120 per ton upwards, according to quantity.

MAGNESIUM HYDROXIDE, B.P.C.—Makers' price for 1-cwt. lots is 2s. 11d. per lb.

MAGNESIUM OXIDE (B.P. LEVIS).—Prices for the home trade (per lb.) are as follows: Containers in brackets, 28 lb. to 1 cwt., 3s. 5d. (1-lb.); 3s. 4d. (2-lb.); 3s. 3½d. (4-lb.); 3s. 2½d. (7-lb.); 3s. 2d. (14-lb.) 3s. 1d. (28-lb.) per lb. Larger quantities range from 2s. 4½d. to 2s. 6d. per lb. in 28-lb. packages, as to quantity, carriage paid.

MANDELIC ACID.—Current prices per lb. are: 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb., 16s. 9d.; 28 lb., 15s.

MERCURY SALTS.—Makers' rates per lb. for 1-cwt. lots are: AMMONIUM CHLORIDE, B.P., lump, 7s. 8d., powder, 7s. 10d.; YELLOW OXIDE, B.P., and RED OXIDE, B.P.C., 8s. 4d. BICHLORIDE, B.P., lump, 7s., powder, 6s. 5d.; MERCUROUS CHLORIDE, B.P., 7s. 10d. Quotations for small quantities of MERCURY WITH CHALK, B.P., are at 4s. 9d. for MERCURIC CYANIDE, 18s. 9d., and for OLEATE, B.P., 5s. per lb.

MORPHINE.—Prices per oz. current in the home market are: ALKALOID, ½ oz., 55s. 3d.; 1 oz., 52s. 9d.; 2 oz., 51s. 3d.; 3 oz., 50s. 6d.; 4 oz., 50s. 3d. HYDROCHLORIDE, ½ oz., 46s. 9d.; 1 oz., 44s. 3d.; 2 oz., 42s. 9d.; 3 oz., 42s.; 4 oz., 41s. 9d.; BIMECONATE and TARTRATE, as ALKALOID; ACETATE, HYDROBROMIDE and SULPHATE, as HYDROCHLORIDE.

PANCREATIN.—Price of B.P. material is from 13s. 6d. to 16s. 6d. per lb., according to quantity.

PARALDEHYDE.—Rates for B.P. material are as follows: 5 carboys, 1s. 5d. per lb.; 1 carboy, 1s. 6d.; 24 winchesters, 1s. 7½d.; 17, 1s. 8½d.; 6, 1s. 10d.; 3, 1s. 11d. per lb.

PEPSIN.—B.P. is quoted at about 32s. per lb.

PHENOL.—Maximum price for crystals in the home market is 11d. per lb., in 1-ton lots in drums (returnable), delivered.

SALICYLIC ACID.—Makers' quotation for 1 cwt. is 2s. 2½d. per lb.; scheduled rates per lb. for quantities of 28 lb. and under 1 cwt. (containers in brackets) are: 2s. 10½d. (1-lb.); 2s. 9½d. (2-lb.); 2s. 9d. (4-lb.); 2s. 8d. (7-lb.); 2s. 7½d. (14-lb.); 2s. 6½d. (28-lb.) Net one month.

Crude Drugs

ACONITE.—Indian is steady at 300s. per cwt., spot; *Napellus* (0.435 per cent.), 4s. 3d., duty paid.

AGAR.—Japanese strip, 16s. 6d. to 18s. 6d. per lb., duty paid; forward, 15s. to 16s., c.i.f. South African powder, in tins in cases, is available at 20s. per lb.

ALOES.—A fair inquiry reported. Cape, prime quality, spot, 130s. per cwt.; forward, 116s. to 120s., c.i.f., as to quality. Curaçao in boxes, 200s. to 220s. per cwt., as to quality; shipment, 200s., c.i.f. Socotrine, 160s. to 180s. per cwt., spot.

ASAFETIDA.—Steady. Persian block is offered at from £15 to £24 per cwt., spot.

BALSAMS.—Good export inquiry reported. Spot quotations for *Canada* are from 17s. 6d. to 19s. per lb. Pará *Copaiba* (soluble) is offered at 4s. 9d. to 5s. per lb., spot; Maranham is available at 6s. 6d. San Salvador, *Peru*, is quoted at from 4s. 9d. to 5s. 3d. per lb., duty paid. *Tolu*, 15s. 6d. per lb., spot.

BAY LEAVES. — Quotations are steady from 11d to 1s. per lb., duty paid.

BELLADONNA.—Yugoslav root (testing 0.45 per cent.) is offered at 5s. 3d., duty paid; a parcel of English leaves (0.8 per cent.) is offering at 7s. 6d. per lb.

BENZOIN.—Sumatra block on the spot is from £14 to £16 per cwt., as to quality; Siam free almonds, to arrive, £120 per cwt.

BISMUTH.—Metal is unchanged on quotation at 11s. per lb. for 5-cwt. lots.

BUCHU.—Short rounds on spot are quoted at 3s. 11d. per lb., shipment, 3s. 8d., c.i.f.

CALABAR BEANS.—Parcels are offered at about 10½d. per lb.. spot.

CAMPHOR.—Chinese tablets steady at from 9s. 9d. per lb., duty paid; refined powder (B.P.), 8s. to 8s. 6d., with B.B. grade, 7s. 6d.; crude powder, 6s. 6d.

CANTHARIDES—Easier on spot at 8s. 3d. per lb., with inquiry lacking; shipment quotations are at 5s., c.i.f.

CARDAMOMS.—Further business reported with a steady market. Mangalore half-bleached A's, 9s., nominal, spot; B's, 8s., seeds, 7s. 9d. to 8s. Aleppy seeds, 9s., spot; 8s. 9d. to 9s., c.i.f., per lb. Aleppy greens, 7s., spot; 6s. 9d., c.i.f. Ceylon seeds, 7s. 9d. per lb.

CASCARA SAGRADA. — Continues quiet. Bark on the spot is offered from 200s. per cwt.; new-crop, forward, is at about 190s., duty paid value.

CASCARILLA.—A dull market. Quills, 1s. 5d. to 1s. 7d. per lb., spot, siftings, 1s. 4d. to 1s. 5d.

CASSIA PODS (*C. fistula*).—East Indian, 65s. per cwt., ex wharf.

CHILLIES. — Mombasa, 110s. per cwt., spot; shipment, 95s., c.i.f.; Sierra Leone, 115s., nominal; Nigerian, 85s. to 90s., spot.

CHAULMOOGRA.—*Hydnocarpus* on spot is quoted at 1s. 9d. per lb.

CLOVES.—Market has been quiet. Zanzibar, spot, quoted at 9½d. to 10d. per lb.; shipment, 11d., c.i.f. Madagascar, shipment, 7d., c.i.f. Penang, on spot, 2s. 9d. to 3s. per lb.

COCHINEAL.—Quiet. Silver greys, steady at 4s. 3d. per lb., spot, blacks, 4s. 6d.

COLCHICUM.—Corms on the spot, offered at 7s. 6d. to 8s. 6d. per lb.

COLOCYNTH.—Pulp is quoted at 1s. 7½d. to 2s. per lb., spot.

DIGITALIS.—Market quiet. Portuguese leaves quoted at about 150s. per cwt., spot; English, from 2s. 6d. per lb. Powder, B.P., is available at 5s. 9d. per lb.

DRAGONS BLOOD.—Steady. Singapore reboiled No. 1, £65 per cwt., spot; No. 2 £35.

ELEMI.—Manila No. 1 on the spot is quoted 2s. 3d. per lb.

EPHEDRA.—Herb is offered at 67s. 6d. per cwt., ex wharf.

ERGOT.—Portuguese for shipment is steady at 4s. 6d., c.i.f. Russian, 4s. 6d. per lb., spot.

FRANGULA.—A parcel of bark is offering at 190s. per cwt., spot London.

GALLS.—Steady. Persian blues quoted on spot at 260s. per cwt.

GAMBOGE.—Siam pipe on the spot is offered at £50 per cwt., duty paid.

GUAIACUM RESIN.—Steady. Prices are from 2s. 4½d. to 2s. 6d. per lb., spot.

HONEY.—Prices are unchanged. Agreed rates per cwt. for Australian or Jamaican honey, for manufacturing purposes, are as follows: In original packings (56-60 lb. tins for Australian or 3½-cwt. barrels for Jamaican) for quantities of 10 cwt. or more, 96s.; less than 10 cwt., 105s., net. carriage paid. Refined repacked honey is available at the following rates per cwt.; In 7-14 lb. tins, 145s.; 28-lb. tins, 130s.; 56-lb. tins, 120s., carriage paid, subject to wholesale discount of 8½ per cent.

IPECACUANHA.—The market is weaker with Nicaraguan on the spot quoted at from 23s. 6d. to 24s. per lb.; shipment has fallen to 18s. from 19s., c.i.f.

JALAP—Vera Cruz, spot, 3s. to 3s. 9d. per lb. as to test (15 to 17 per cent resin). Brazilian (13 per cent.), 1s. 6d.

KARAYA.—A fair inquiry reported. No. 1 gum is quoted at 215s.; to arrive, 205s., c.i.f. No. 2, 180s. per cwt., spot.

LIQUORICE.—Continues quiet. Anatolian natural, spot, from 47s. to 50s. per cwt., as to holder; Syrian, 40s. Italian block, 375s. per cwt., spot; Italian stick, from £385 to £525 per ton, as to quantity and grade. Turkish block, from 240s. per cwt.; Syrian block, to come forward, 405s., duty paid; American block, £172 per ton.

MENTHOL.—Spot quotations are from 44s. to 45s. per lb., duty paid for Brazil; in bond, 42s. Offers from China are at from 52s. 6d. to 62s. 6d. per lb., c.i.f.

MYRRH.—Aden sorts, £12 to £14 per cwt.; siftings, £6 10s. to £7 per cwt., spot.

NUTMEG. — West Indian 80's, spot, 3s. 4d.; sound unassorted, 2s. 11d.; wormy and broken, 1s. 8d. per lb.

ORANGE PEEL.—Spanish quarters, 1s. 2d. to 1s. 5d., spot; sweet ribbon, 1s. 9d. Seville bitter ribbon, 1s. 1d.; thin-cut Tripoli, 1s. 2d. per lb.

PAPAIN.—East African No. 1 is quoted at 25s. per lb., spot; Ceylon, 20s.

PIMENTO.—Market remains quiet. Spot, 1s. 1½d. per lb.; to arrive, 119s. per cwt., c.i.f.

QUASSIA.—Spot quotations for chips are 35s. to 36s. per cwt., as to holder.

RHUBARB.—Spot. Chinese rough-round, good pinky fracture, 4s. to 4s. 9d. per lb., according to seller; wormy, 2s. 6d. to 3s. Rhapontic is offered at 1s. per lb.

SARSAPARILLA. — Only a small trade. Jamaican native red, 2s. 2d. per lb., spot,

SCAMMONY.—A parcel of root (15.8 per cent. resin) is offering at 65s. per cwt., spot.

SEEDS. — Both Cyprus and Turkish ANISE are now offered at 1s. 5d. per lb., spot London (Turkish, duty paid). CARAWAY.—Dutch is unchanged at 105s. per cwt., duty paid, spot London. CELERY.—Indian is quiet at 1s. 2d. per lb., spot London or Liverpool. CORIANDER.—Argentine is offering freely at 42s. 6d. per cwt., duty paid; Morocco, now afloat, is offered at 41s. per cwt., landed terms, duty paid. CUMIN.—Indian is in poor demand at 200s. per cwt., spot Liverpool. Cyprus, just landed (new-crop), is 205s. per cwt., spot London. DILL.—Indian is quoted at 47s. 6d. per cwt., spot London, and 46s. in Liverpool. No business is reported at these figures. FENNEL.—Indian in Liverpool has been sold at 70s. per cwt. Spot London, quoted at 72s. 6d. per cwt. FENUGREEK.—Indian remains unchanged at 57s. 6d. per cwt., spot London or Liverpool; Morocco, now landing both in London and Liverpool, quoted at 56s. per cwt., landed, duty paid.

SENNA.—Tinnevelly leaves, spot, No. 1, 9d. to 1s. per lb.; No. 2, 7½d. to 8d.; No. 3, 5d. to 5½d. Tinnevelly pods, hand-picked, 9d. to 1s. 4d.; manufacturing, 5d. to 5½d. Alexandrian pods, hand-picked, spot, from 4s 9d. to 5s. 9d., according to quality; medium, 2s. 9d.; manufacturing from 1s. to 1s. 9d. per lb.; Alexandrian leaves, f.a.q., 1s. 2d. per lb.

TRAGACANTH. — Business remains quiet; quotations unchanged. Selected white ribbon, spot, £100 per cwt.; other white grades, from £55 to £97; pale leaf, £35 to £50; amber, £23 to £33; red, £14 to £20; hoggy, £5 to £11.

Essential and Expressed Oils

ALMOND.—Sweet oil (B.P.) quoted a about 6s. 6d. per lb. on the spot; bitter e sential oil, 27s. 6d. to 40s. per lb., as t quality.

ANISE.—Chinese star, in drums, is easie at 5s. per lb., with up to 5s. 6d. for smalls October-November shipment, 4s. 8d., c.i.f.

BAY.—West Indian is offered at 7s. t 8s. per lb., on the spot.

CAMPHOR.—White oil on the spot i quoted at 2s. 8d. per lb., duty paid.

CARAWAY.—English-distilled is offering a 37s. to 40s.; imported, 28s. to 30s. per lb

CASSIA. — Spot quotations are fron 12s. 6d. to 14s. per lb.

CINNAMON.—B.P. oil, 60s. to 70s. pe lb. Bark oil is offered at 12s. per oz Leaf oil, on the spot, 7s. to 9s. per lb.

CITRONELLA.—Ceylon is quoted at 3s. 7d per lb., spot, and 3s. 3d., c.i.f. Java oi spot, 8s. per lb.; 5s. 8d., c.i.f.

CLOVE.—Quotations for English-distille bud oil are at from 10s. 6d. to 12s. per lb according to quantity.

EUCALYPTUS.—70-75 per cent. (B.P.), 4s. per lb. for drums, and up to 5s. 6d. for smaller quantities; 3s. 8d., c.i.f.

GERANIUM.—Bourbon dull and quoted at about 47s. 6d. to 57s. 6d. per lb., as to grade.

GINGER.—Prices are from 70s. and upwards per lb., according to grade.

GUAIACWOOD.—Offers are from 18s. to 20s., according to seller.

LAVANDIN.—Market dull. Spot, about 8s. 6d. to 10s. 6d. per lb.

LAVENDER. — French, 38-40 per cent., 20s. to 23s., spot; 40-42 per cent., 23s. to 24s. Spanish (spike) unchanged at 9s. to 11s. per lb., spot.

OLIVE.—Importers' price is 29s. 8d. per gall. of 9 lb. Wholesalers' prices are: 1 pint, 5s. 6d.; 2 pints, 10s.; ½ gall., 19s.; 1 gall., 37s. 6d.

PATCHOULI.—Singapore, on spot, is easier at from 20s. per lb.

THE National Edible Oil Distributors' Federation rates, for all areas except Devon and Cornwall, are as follows: GROUNDNUT, MAIZE, COTTONSEED, SUNFLOWER-SEED, 127s. 6d. per cwt., 10s. 5d. per imperial gall., 10s. 3d. per approximate gall.; PALM-KERNEL, 126s. 6d. per cwt., 10s. 4d. per imperial gall., 10s. 2d. per approximate gall. The prices are for oils packed in cans. The price of oil in barrels is as follows: On loan, 1s. per cwt. below the ½-cwt. can price; free, 3s. per cwt. below the ½-cwt. can price, plus the cost of container. Devon and Cornwall rates for oils are 2s. per cwt. or twopence per gall. more than those for other areas, and the cwt. prices are based on ½-cwt. loan taper cans.

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

A Correction

SIR,—I find there is a serious error in the report of the reply to the discussion of my paper on "Stability of Adrenaline Solutions." I stated that the preservation of the solutions was caused by sulphur dioxide rather than by metabisulphite, not the deterioration as reported in your account.

Yours faithfully,

London, W.C.1. T. D. WHITTET.

A "Different Snoot"

SIR,—Half-way through the third month of N.H.S., I have been taking stock of my financial position concerning the Government's indebtedness for services rendered. I feel perturbed to learn that a system of average payments is having to be adopted in England. In spite of an assurance that we in Scotland would not be establishing a precedent by agreeing to this earlier this year, I am not convinced that the Department of Health will not make the suggestion. We Scottish chemists were very emphatic in our refusal of Mr. Bevan's offer, and we are anxiously waiting for the report from the Whitley Council on our request for a much larger dispensing fee. It is hoped that the seemingly substantial cheques which have been forwarded to us will not blind some to the fact that gross receipts are meaningless and do not affect the all-important question of dispensing fees. A writer in a contemporary who has suggested that Mr. Bevan will be quite pleased to see large bills for drugs appears to miss the point that it is not the Minister of Health who has to meet this expenditure, but the Chancellor of the Exchequer. That, as we say in Scotland, is "a soo wi' a different snoot." In other words, it is not Mr. Bevan's pigeon, but Sir Stafford Cripps'. I think that it is particularly unfortunate that some months must elapse before we again join battle over our fees, and that there is a measure of appeasement in our attitude. Some years ago, when we were getting all het up to show fight, it was decided that we would not embarrass the Government. On the question of average payments, we were told that it would create a good atmosphere if we agreed. Future generations of pharmacists may blame us for not preferring the dust of battle. Yours faithfully,

Anstruther. R. S. WHITELAW.

Appreciations

SIR,—Congratulations on the promptness and excellence of the *C. & D.* report about the earlier happenings of Conference week. It does read well. There are happy little touches which give it life: e.g., the dragons. I for one never attributed any pharmaceutical significance to them, traditional or otherwise. I have enjoyed the Conference a lot more since I read the *C. & D.* report. The Conference Committee will have thanked you for your brochure about Brighton, very greatly appreciated.

Yours faithfully,

Brighton, 6. EDGAR JONES.

SIR,—May I congratulate you on the way in which in your two most recent issues you have succeeded, despite the paper shortage, in reporting the Brighton Conference so effectively. In particular I thought your artist's impressions one of the liveliest things I have seen in a pharmaceutical paper for many years. My modest income prevents me from making a bid for the original, but I would appreciate a reprint of the cartoon if it should be possible to make any available.

Yours faithfully,

BRIGHTONIAN.

[Our correspondent's suggestion has been adopted and a limited number of reprints is being made available.—EDITOR.]

A PHARMACIST'S ANTHOLOGY

"THINK not," said he warmly, "that it suffices to bleed: any paltry barber can open a vein (though not all can close it again). The art is to know what vein to empty for what disease. T'other day they brought me one tormented with earache. I let him blood in the right thigh and away flew his earache. By-the-by he has died since then. Another came with the toothache. I bled him behind the ear, and relieved him in a jiffy. He is also since dead as it happens. I bled our bailiff between the thumb and forefinger for rheumatism. Presently he comes to me with a headache and drumming in the ears, and holds out his hand over the basin; but I smiled at his folly, and bled him in the left ankle sore against his will, and made his head as light as a nut."

—*From "The Cloister and the Hearth," by Charles Reade.*

TRADE MARKS

(From the "Trade Marks Journal," August 25)

"STERAVITE"; by Ward, Blenkinsop & Co., Ltd., London, W.1; 659,151. "ZUBEX"; by F. W. Hampshire & Co., Ltd., Derby; 661,808. For pharmaceutical preparations and substances (5).

"GESTROSEX"; by Imperial Chemical (Pharmaceuticals), Ltd., Slough; 662,404. For pharmaceutical substances for use in the treatment of diseases and conditions of, or derived from, the female reproductive organs (5).

"UROLUCOSIL"; by H. Lundbeck & Co., Copenhagen; 662,407. For pharmaceutical preparations and substances for use in the treatment of diseases and disorders of the urinary system (5).

"LUCILLE"; by the Cellusan Co., Ltd., London, N.1; 663,023. For sanitary towels (5).

"L.F.B. PRODUCT" and device of shield; by Lewdown, Ltd., Oldham; B664,232. For sanitary towels, and cotton wool for pharmaceutical purposes (5).

"OPTONE"; by Perivale Laboratories, Ltd., Greenford; 668,160. For medicinal preparations for human use for export (5).

"COMPCO" in distinctive lettering; by Compco Corporation, Chicago; 656,827. For cameras and photographic apparatus (9).

"PARAVOX" in distinctive lettering; by Paraphone Hearing Aid Inc., Cleveland; 657,266. For hearing aid apparatus, and parts thereof, for use by the deaf (10).

"OPTREX"; by Optrex, Ltd., London, E.C.4; 662,555 and 662,558. For all goods (10).

"RIDDO"; by Riddell Products, Ltd., London, W.1; 662,631. For medical and surgical instruments and inhalers (10).

"COLINO"; by the Colindale Paper Co., Ltd., London, N.W.9; B660,463. For toilet paper (non-medicated) (16).

"CHEVRON"; by Progress Shaving Brush Co., Ltd., Stockport; 663,005. For shaving brushes (21).

(From the "Trade Marks Journal," September 1)

"NASTOR"; by the White Sea & Baltic Co., P. & I. Danischewsky, Ltd., London, E.14; 656,214. "SHELLESTONE"; by Shell-Mex & B.P., Ltd., London, E.C.3; 662,033. For scientific, agricultural and industrial chemicals (1).

"SANAGRAN"; by Société des Usines Chimiques Rhône-Poulenc, Paris; 660,481. For chemical substances for agricultural and horticultural purposes (1).

"SHELLESTOL"; by Shell-Mex & B.P., Ltd., London, E.C.3; 662,032. For wetting and emulsifying agents for use in agriculture and horticulture (1).

"OH! PLEASE"; by J. P. Lorriaux, Paris; B650,197. "ESROLKO"; by Esrolko Société Anonyme, Zurich; 651,301. "BATHASWEET"; by Bathasweet Corp., New York; B660,267. "KRINKA"; by Ashe Laboratories, Ltd., London, S.W.1; 660,883. "WALGREEN"; by Walgreen Co., Chicago; B661,043. "SHERAZARD"; by Albert William Northover, Manchester; 662,879. For non-medicated toilet preparations (3).

"MENOFILM"; by Marbrix Cine Co., London S.W.9; 662,736. For sensitised photographic films (1).

"COURTLEY"; by Courtley, Ltd., Los Angeles; B657,270. For all goods (3).

"SESAMY"; by F. J. Dodd & Co., Liverpool; B657,772. For non-saponaceous detergents. (3)

"LUCKY STRIKE" in rectangular shape; by Lucky Strike Perfumeries Corp., Tangier, Morocco; 658,172. For perfumes, soaps, non-medicated face cream, cosmetic preparations, etc. (other than toilet preparations) (3).

"TRIFFIC"; by Pride Products, Leeds; B658,73[illegible]. For non-medicated toilet preparations excluding soaps, cosmetics, hair lotions and cream (3).

"RENZOLIN"; by Edmund Gardner, Wigan; 659,881. For liquid soap and detergent preparations (3).

"PRISTINA"; by Naxan Laboratories, Ltd., Glasgow; B659,940. "LISSENE"; by Koray, Ltd., London, W.1; 661,910. For detergents (3).

"LA CLEF DE PIERRE DUNE" and device of key by Pierre Dune, Paris; 660,178. "DEFI" and "SUKA HATI"; by L. G. Colomb & Co., Ltd., London, W.C.2; 661,786 and 662,003. For non-medicated and non-saponacous toilet preparations, cosmetics, etc. (3).

"DOLASOPE"; by Coldstart Petroleum Products, Ltd., Bradford; B661,856. For soaps (3).

"ESROLKO"; by Esrolko Société Anonyme, Zurich; 651,302. For pharmaceutical substances disinfectants, and preparations for killing weeds and vermin (5).

"RHEU-FA"; by Merrivale Co., Bickley; 653,032. For pharmaceutical preparations and substances for the treatment of rheumatic ailments (5).

"FRANK'S"; by Frank Sammeroff, Ltd., Glasgow; 656,208. For adhesive dressings for medical and surgical purposes (5).

"DELCAINE ROQUES" (word "Roques" disclaimed); by Etablissements Roques, Paris; 657,681. For local anæsthetics (5).

"CASTLE RUSHEN" and device of shield and castle; by Baden Powell Gatfield, Castletown, Isle of Man; 657,637. "WALGREEN"; by Walgreen Co., Chicago; B661,044. "FOLVRON"; by American Cyanamid Co., New York; 661,388. For all goods (5).

"IPSOLON"; by Manston Medical Products Ltd., Manchester; 661,210. Device of Egyptian head; by Arthur H. Cox & Co., Ltd., Brighton; 661,641. For pharmaceutical preparations and substances (5).

"MI-MALTO" on label device; by H. G. Kingham & Co., Ltd., Dorking; 658,859. For tonic medicines for human use containing malt (5).

"C. L. BENCARD" in distinctive lettering; by C. L. Bencard (1934), Ltd., Dereham, Norfolk; 662,687. For medicinal preparations for human use (5).

"MARABOU" and device of marabou; by Aktiebolaget Chokladfabriken Marabou, Sundbyberg, Sweden; 660,148. For medicated throat pastilles and lozenges (5).

"MASTOL"; by the Crown Chemical Co., Ltd., Tonbridge; 658,895. For veterinary preparations for use in the treatment of mastitis (5).

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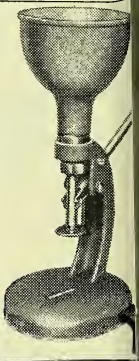

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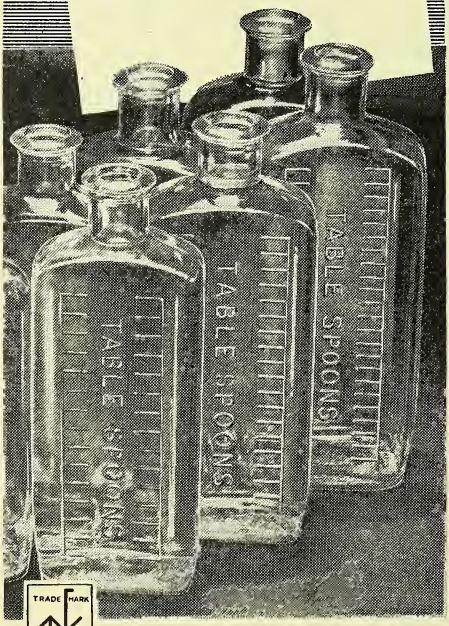

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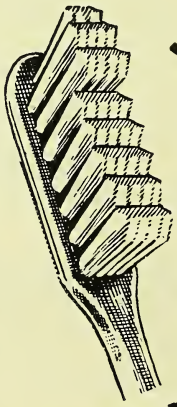

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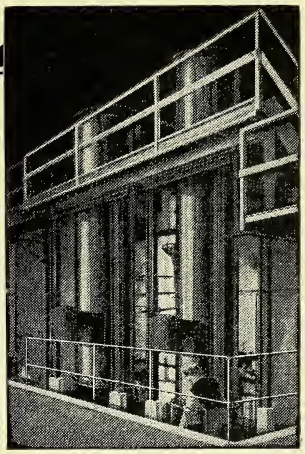

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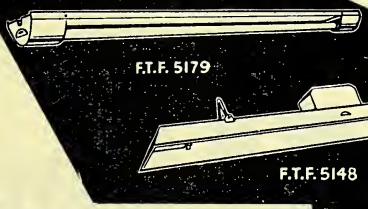

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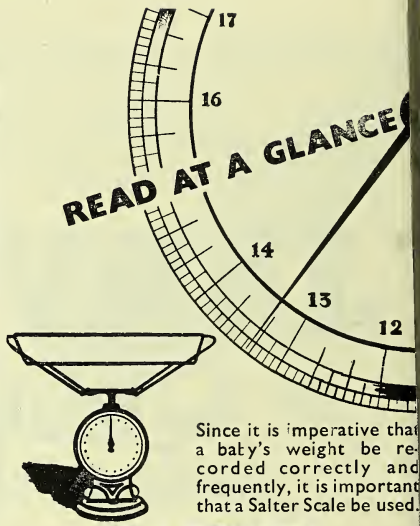

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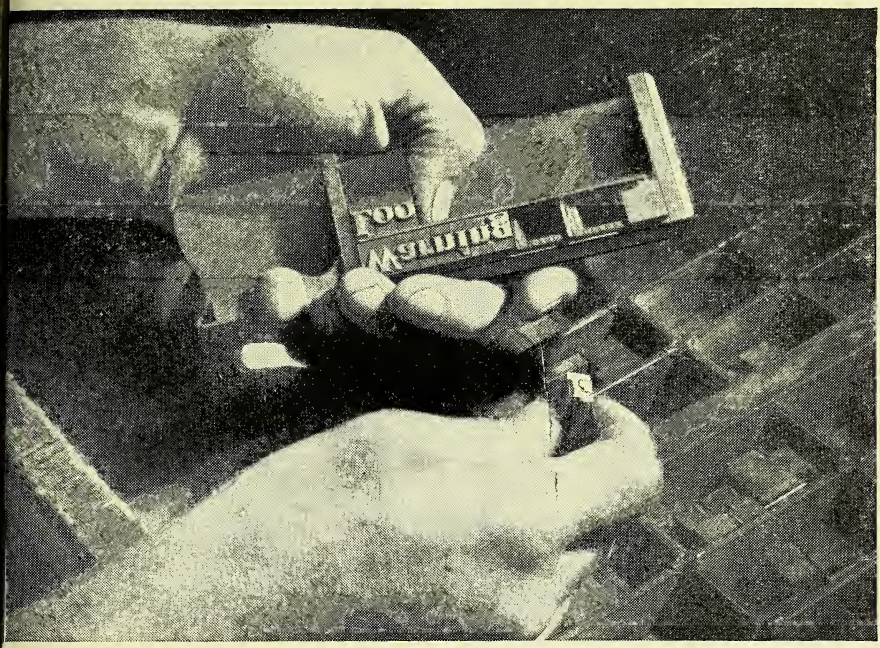

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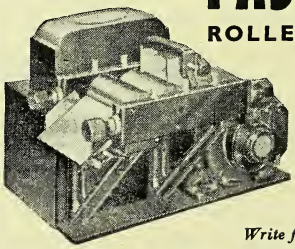

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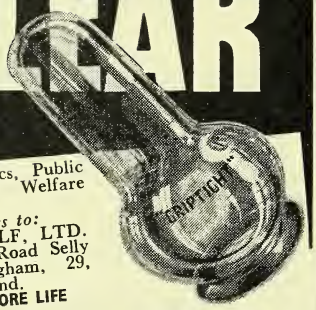

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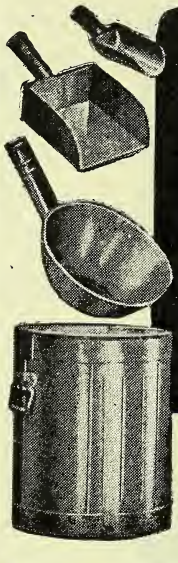

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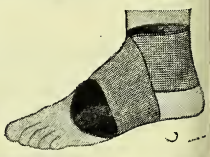

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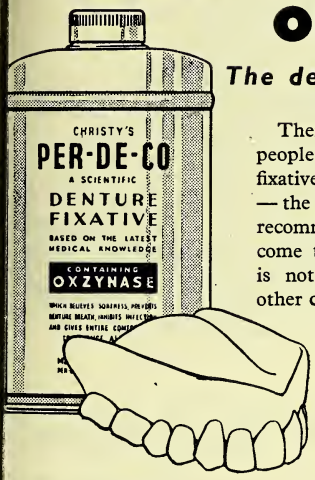

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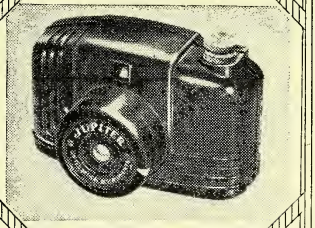

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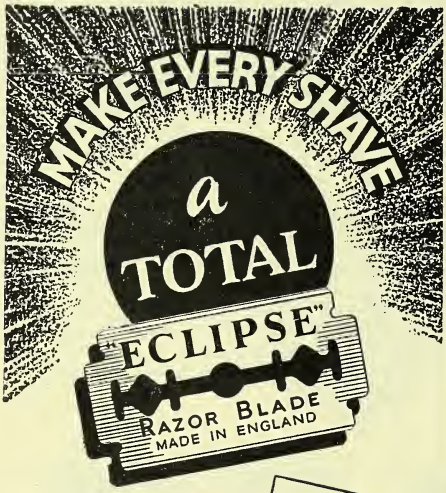

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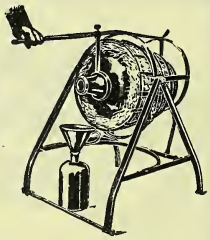


For drawing off small quantities of Acids from Carboys.

The Carboy can be tipped to any position with one hand.

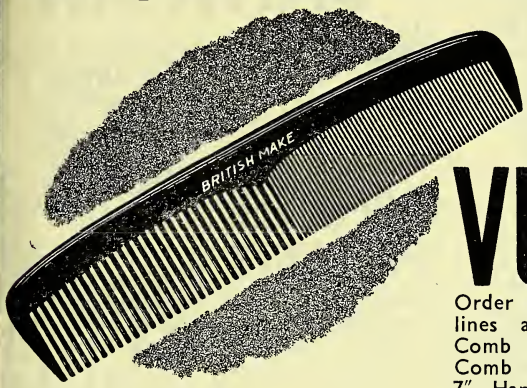
LEIGH & SONS METAL WORKS
Orlando St., BOLTON

THE NEW PREPARATION

which you may be contemplating will need a label which will inspire confidence and help to establish a good and increasing sale. We shall be pleased to hear from you.

JAMES TOWNSEND & SONS, Ltd. • *Label Printers* • EXETER

Tell your customers . .



the best comb is

VULCANITE

Order through your wholesaler. Popular lines available today include Dressing Comb 1553 7½" (illustrated), Dressing Comb 1515 7½", Gentlemen's Comb 1131 7", Handled Comb 290 7" and 3" Tooth Comb 611.

NORTH BRITISH

VULCANITE COMBS — *BETTER FOR THE HAIR*

THE NORTH BRITISH RUBBER COMPANY LTD. · EDINBURGH · LONDON & BRANCHES

Cyclo

OWN MANUFACTURE

"CYCLOCHEM"

Trademark

CERA EMULSIFICANTS B.P.
LANETTE WAX SX.
GLYCERINE MONOSTEARATE

etc., etc.

Ask for our 24-page Handbook "Cyclochem Self-Emulsifying Waxes"

NEW EDIBLE WAX EM.455

SELF-EMULSIFIABLE

Pure White in block and powder

Ask for samples and special leaflets

CYCLO CHEMICALS LTD.

Wax Refiners and Chemical Manufacturers

MANFIELD HOUSE, STRAND, LONDON, W.C.2

And now —

MATHAPLAST

PLASTIC WATERPROOF FIRST AID DRESSING

ADVERTISEMENTS in the leading daily papers are building strong goodwill for these new Mathaplast dressings. Specially prepared by the makers of Mathaplast Fabric Elastic Dressings they fill a definite demand for a washable dressing which is proof against oil and grease whilst fitting snugly and toning with the skin.

WILLIAM MATHER LTD., MANCHESTER, 15

LET US PACK YOUR PRODUCTS

OR MANUFACTURE AND PACK

ANY QUANTITIES

YOUR NAME

T.J. FAVELL & Co Ltd
Manufacturing Chemists
PHONE ARCHWAY 1846
192, SEVEN SISTERS ROAD, LONDON, N.4.

SANIPAN
LAVATORY CLEANSER

one of
WALKERS APPROVED PRODUCTS

Supplies available immediately. Order from usual wholesaler. Sells at 1/3 per large screw-top tin (25% retail profit). High quality product backed by national advertising, free sales literature, full colour showcards, display matter, etc.

W. & F. Walker, Ltd., Liverpool

IMPORTANT TO REPLACE CAP
SANIPAN
REG. TRADE MARK
FRAGRANT LAVATORY HYGIENIC CRYSTALS

cvs-16

A DELICATE SUBJECT — FOR DELICATE SKINS

The TOTTY-POT

Rubber Ringed for Cushion Comfort

A NON-CORROSIVE ACID-PROOF HYGIENIC CHILD'S CHAMBER

Detachable ring, easily removed for cleaning purposes

Made of Aluminium

ANODISED IN SOFT PASTEL SHADE

Trade Mark "Totty Pot" Patent-applied for

SOLE MANUFACTURERS
J. BILLIG & SONS LTD.,
ESTABLISHED 1899
BILTIN WORKS, FONTHILL Rd LONDON N.4.
TELEPHONE: ARCHWAY 2753 & 3858

MAZDA
FLUORESCENT LAMPS

Announcement...

From September 1st Mazda Fluorescent Lamps (MCF/U) in the following sizes will be available in "Natural" colour.

LENGTH	WATTS	DIAM.	CAP.	LIST PRICE	PUR. TAX	TOTAL
* 5 ft.	80	1½"	BC	15/6	4/0	19/6
* 4 ft.	40	1½"	Bi-Pin	14/0	3/8	17/8
† 2 ft.	40	1½"	Bi-Pin	13/0	3/5	16/5
† 2 ft.	20	1½"	Bi-Pin	12/6	3/3	15/9

* *Can also be supplied in "Daylight" and "Warm-White" at above prices.*
† *Can also be supplied in "Warm-White" at above prices.*

From October 1st the undermentioned sizes in "Natural" and "Warm-White" colours become available.

LENGTH	WATTS	DIAM.	CAP.	LIST PRICE	PUR. TAX	TOTAL
3 ft.	30	1"	Bi-Pin	13/0	3/5	16/5
1½ ft.	15	1"	Bi-Pin	11/6	3/0	14/6

A wide range of fittings for the 5ft., 4 ft., and 2 ft. Mazda Fluorescent Lamps is available Details of an attractive series of fittings for use with the 3ft. and 1½ ft. lamps will be announced later.

MAZDA LAMPS

MAZDALUX FITTINGS

M.4192 THE NATION'S LIGHT

B T-H

The British Thomson-Houston Co. Ltd., Crown House, Aldwych, London, W.C.2

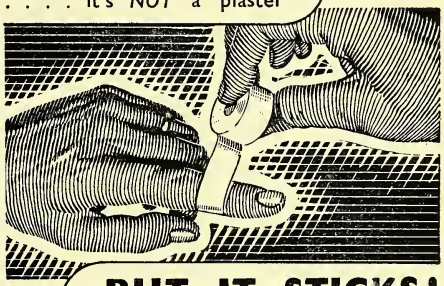
DOMESTOS sells *FAST*

Domestos is the quick-selling repeat line that is popular with the housewife in 3 ways—Bleach, Cleanser and Disinfectant. Used as a BLEACH it gives whiter whites on washdays—used everyday as a CLEANSER it makes light work of all the rough work in the home. As a DISINFECTANT and cleanser for lavatories it is ideal. Be sure you stock Domestos—it brings profit and goodwill. Write to-day for Trade terms.

DOMESTOS LIMITED

COLLEGE WORKS, NEWCASTLE UPON TYNE, 6

NOT STICKY
. . . . it's *NOT* a plaster



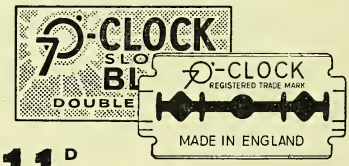
BUT IT STICKS!
. . . it's *MORE* than a bandage

PRESTOBAND
THE ANTISEPTIC SELF-ADHESIVE BANDAGE STICKS TO ITSELF — BUT NOT TO THE SKIN

Details from the Sole Distributors
FASSETT & JOHNSON LTD
86 Clerkenwell Rd. London, E.C.1 and 6 Crow St. Dublin
MADE BY VERNON & CO. LTD., PRESTON, LANCS.

7 O'CLOCK advertising certainly presents the brighter side of shaving. That's why it is creating such a huge fund of goodwill for these famous blades. "7 O'CLOCK, COCK!" is a phrase everyone reads, remembers, and repeats. And everyone who's tried 7 O'CLOCK is agreed that it's quite the sharpest blade at the price. Yes, you're on safe ground when you order a stock of these popular triple-ground blades.

7 o'clock BLADES



11D FOR SIX *(Including Tax)*

Actually **COST LESS** *than* **PRE-WAR!**

Trade enquiries to your wholesaler or to Gillette Industries Ltd., Gillette Corner, Great West Road, Isleworth, Middx.

TRILENE' *brand*

TRICHLOROETHYLENE produces a constant plane of analgesia, without loss of consciousness, which is easy to maintain. 'Trilene' analgesia is recommended in minor operative procedures, in midwifery, dental surgery and for painful dressings.

Packings

Containers of 250 c.c., 500 c.c. and 8 lb.
Crushable ampoules of 1 c.c. Boxes of 5.
Ampoules of 6 c.c. Boxes of 1, 5 and 25

ICI

IMPERIAL CHEMICAL [PHARMACEUTICALS] LTD.
(*A subsidiary company of Imperial Chemical Industries Ltd.*)
MANCHESTER

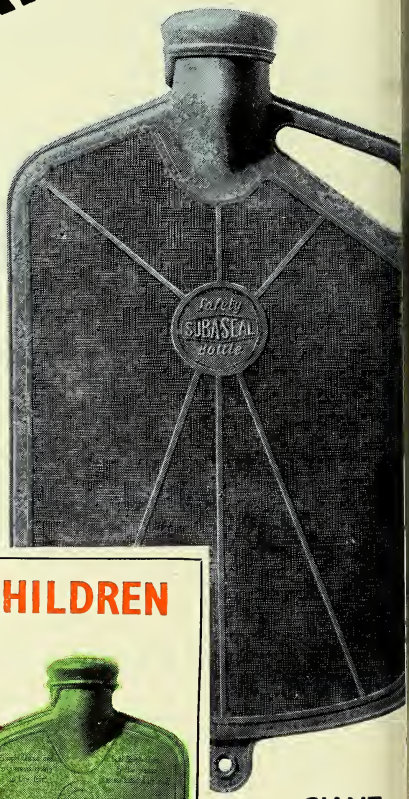
Ph.287

REGISTERED
SUBA-SEAL
TRADE MARK

REDUCED PRICES

are now in operation for BRITAIN'S NEWEST

New models and designs in a range of most attractive colours.



SPECIAL DESIGNS for the CHILDREN

SIZE No. 3 RHYMES

Four of the popular Children's Nursery Rhyme Bottles

A different design and rhyme appears on each side of the bottle

GIANT SIZE NO. 4 with handle

Ask us for sam and full details our interest prices.

WILLIAM FREEMAN & COMPANY LIMITED

OT WATER-BOTTLE

NO SCREW)

STANDARD SIZE NO. 3

e SAFETY BOTTLE with
e TROUBLE FREE CLOSURE

TIRELY BRITISH

Note these selling points :

- EASY STOPPERING
- LONGER RADIATION
- NO BANDS TO BREAK
- SEAMLESS THROUGHOUT
- COMPLETELY VULCANISED
- STOPPER CANNOT GET LOST
- CENTRE CANNOT COME OUT
- ALL RUBBER • NO LEAKAGE
- EASY FILLING • NO AIR LOCK • NO SPLUTTER
- NO TROUBLESOME SCREW

The standard size bottle in an up-to-date carton makes a splendid display

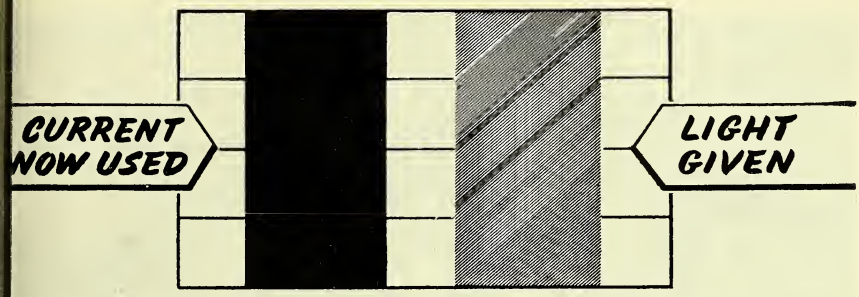
★ STOCKS FOR NEXT SEASON should NOW BE ORDERED . . to ensure prompt delivery . . .

UBASEAL WORKS, PEEL STREET,
BARNSLEY, ENGLAND

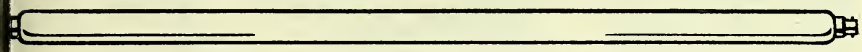
Telephone
RNSLEY 4081

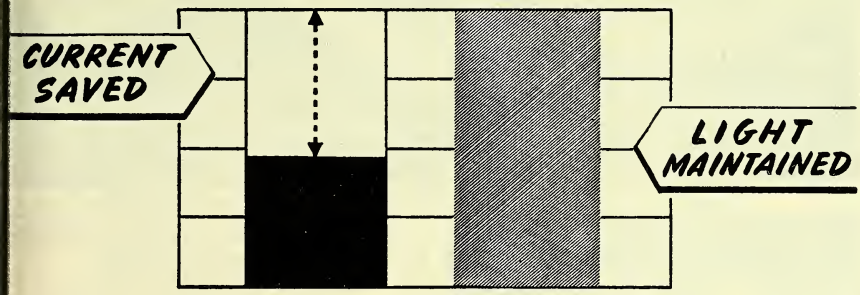
Telegrams
"SUBASEAL, BARNSLEY"

Simplicity is here to-day... As mirrored in the TAMPAX way
TAMPAX
SANITARY PROTECTION WORN INTERNALLY
SELF ASSURANCE and perfect peace of mind
Regular TAMPAX No 1
Regular TAMPAX No 1
TAMPAX For peace of mind
We Stock TAMPAX
1/9
Regular TAMPAX No 1
2L
Regular TAMPAX No 1
Super Absorbent TAMPAX No 2
Super Absorbent TAMPAX No 2
TAMPAX
TAMPAX
TAMPAX
SANITARY PROTECTION WORN INTERNALLY
TAMPAX
display
When Tampax is displayed, women have no need to ask if you stock it. That saves embarrassment. And results prove that it steps up sales, too. There's a wide range of Tampax display units for every purpose. Send details of your requirements to: Sales Office, 110 Jermyn St., London, S.W.1.
TAMPAX
SANITARY PROTECTION WORN INTERNALLY

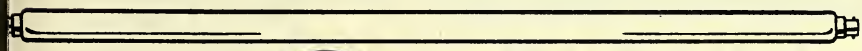


To maintain your standard of lighting –





—and, at the same time, save current, **change to—**



Osram

FLUORESCENT LIGHTING

AND G.E.C. FITTINGS

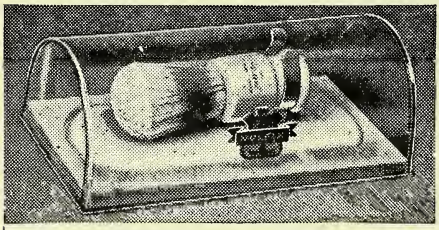
which will give the same illumination as your tungsten lighting with a saving in electricity of over 50%. G.E.C. Illuminating Engineers will advise and assist.

THE GENERAL ELECTRIC CO. LTD., MAGNET HOUSE, KINGSWAY, LONDON, W.C.2

Michel

Exquisite Charm

SOLE DISTRIBUTORS U.K.
ANGLO-AMERICAN DISTRIBUTING CO., LTD.
DANES INN HOUSE, 246, STRAND, LONDON, W.C.2



VULFIX
"TIDY SHAVER"
The brush hangs in a natural drying position on a white moulded plaque. A practical and popular line for Christmas.
PROGRESS
SHAVING BRUSH CO. LTD.
MOTTRAM STREET, STOCKPORT.

Illustrated export catalogue available from London Office :
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TRADE MARKS, BRANDS, DESIGNS
Registered in all Countries
Write for particulars
LIMITED COMPANIES REGISTERED
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'CONTENTA' GRIPE MIXTURE
for BABIES
"The label sells it"
BLACKWELL HAYES & CO. LTD., Wholesale Druggists
54-58 MOOR STREET, BIRMINGHAM, 4

VIRDOX REGD.
nutrition
Rewards Regular Users with Fresh Energy. VIRDOX Powder in 3/6 tins
VIRDOX Tablets in 2/3 tins.
75 KINGSWAY, LONDON, W.C.2

BUNIONS

hurt in winter too!

Don't confuse B.D. (Baume Dalet) with other foot preparations and think it is only a summer line.

Baume Dalet is worth displaying all the year round, because bunions hurt just as much in cold weather as in hot.

And Baume Dalet is the only line made expressly for bunions.

BAUME DALET
TRADE MARK

made expressly for Bunions

From your usual Wholesaler or direct from Sole Distributors for United Kingdom,

SPLENDOR LABORATORIES

7c LOWER BELGRAVE STREET, LONDON, S.W.1

AND AT NOTTINGHAM

THE *Modern* ANTACID..

Magtriz Tablets are an effectiv combination of Magnesium Trisil cate and Magnesium Hydroxid and provide prompt relief an prolonged control in all cases Hyperchlorhydria as recommende by the Medical Profession.

MAGTRIZ

DIGESTIVE TABLETS

2 sizes, 7½d. and 1/6d.
Trade 4/- and 10/- per doz. plus P.T.
Both sizes packed in attractive outers.
Small size 2 dozen. Large size 1 dozen.

PATA

WESTMINSTER LABORATORIES LTD., Chalco ..., London, N.W.1 Tel.: PRImrose 3395/6/7

JEYES'

HYGIENIC

TOILET PAPER

All orders dispatched on or after 1st September, 1948, will be subject to price increase.

NEW RETAIL PRICE

1/2 inc. tax

JEYES' SANITARY COMPOUNDS CO. LTD.,
MILLBROOK, CHIGWELL, ESSEX

CALL OR TELEPHONE

R. S. KING LTD.

274 MILE END ROAD
LONDON : E : 1
Tel.: STEpney 4874-5

Special Offers: **NOW IN STOCK**

" Griptight " Soothers, 3/4 per doz.
All rubber soothers, 4/3 per doz.
" Griptight " feeding bottles, 10/6 per doz.
Honeypot fly bands, 10/6 per gross.
1/- D.D.T. liquid, 9/- per doz.
1/6 Flit, 13/- per doz.
Bottle sprayers, 24/- per doz.
Hand sprayers, 30/- per doz.
Cloudy ammonia, 8-oz., 6/9 per doz.
Cloudy ammonia, 12-oz., 10/- per doz.
Sun glasses, 13/6 per doz. pairs.
8 in. Tail combs, 2/8 per doz. inclusive.

"ZEMS"

HERBAL LICORICE TABLETS

THE BEST MEDICATED TABLETS FOR COUGHS, COLDS, ASTHMA, BRONCHITIS, ETC.

CHEMISTS' CF FORMULA

Supplies may be obtained from C.F. Wholesale Houses

ZEMS LTD.

718-724 Seven Sisters Road, London, N.15

Send your enquiries for

GLUCOSE BARLEY SUGAR

PLAIN, FRUITS & MINTS

against M.O.F. transfer forms

Medicated Pastilles

T.C.L., FRIARS BALSAM,

CHILDREN'S COUGH IN TINS AND IN BULK

Pellets

LIQUORICE & MENTHOL

BLACKCURRANT & LIQUORICE

PEPPERMINT & LIQUORICE

Vitalised Stomach Powder

containing Vitamin B.I.

For Price List, terms & availability of supplies, please send today to:-

A. L. SIMPKIN & CO. LTD.

PHARMACEUTICAL LABORATORIES, SHEFFIELD 6 ENG.

BOON

"DIFFICULT CASES"

Every Chemist is familiar with those skin affections which obstinately persist in spite of regular treatment. A frequent cause is the presence of *Gram-negative* bacteria, resistant to the Gram-positive action of the more common antiseptics.

BOON SKIN EMULSION contains *Parisepsan* and *Katiodin* — a combination of Gram-positive bactericide with Gram-negative bacteriostat which is designed to clear such skin conditions rapidly and effectively.

This unique combination is now available for general use and is protected by British Patents 572368, 578210 and 589097.

A 4-oz. bottle retailing at 3/0½ *costs* 20/- *doz. plus* 6/6 *purchase tax.*

Manufactured by

BOON DORAL LIMITED, MANCHESTER, 2

and distributed in the U.K. by

A. M. ASHFORD LIMITED

HUNTER ROAD, SHEFFIELD, 6

St. Martins

TRADE MARK

DOUBLE-WEAVE

SUPER RIGID

TRANSPARENT

DRINKING 'STRAWS'

NOW AVAILABLE IN

1/- HYGIENIC PACKETS

FROM ALL

CHEMISTS' WHOLESALERS

•

P. HARRIS & CO.

TALBOT HOUSE

ST. MARTIN'S LANE, LONDON, W.C.2

WALLACE

BRAND

FINE CHEMICALS

PHARMACEUTICALS

FOR

EXPORT

ENQUIRIES INVITED

WALLACE (Pharmaceutical Products) LTD

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LONDON, N.W.3

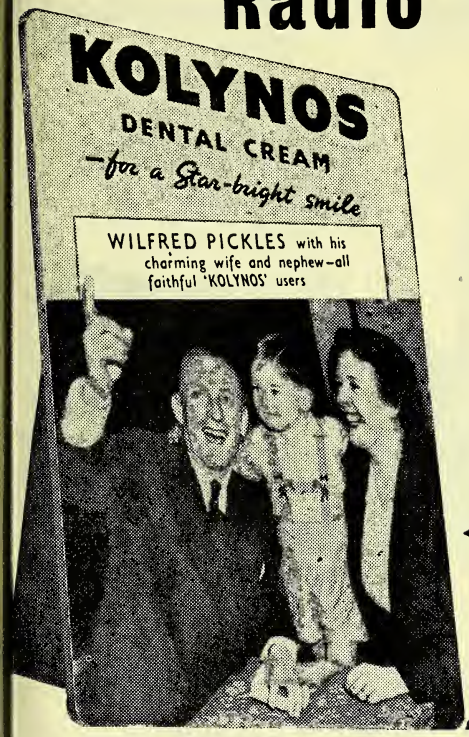
Telephone: HAM 7627

Cables: WALLACOL, LONDON

Radio Favourites help you to sell KOLYNOS

TRADE MARK

DENTAL CREAM



Here's the attractive new showcard featuring Mrs. Pickles and 4-year-old nephew George having a laugh with the famous Wilfred.

MILLIONS WILL LAUGH with the Pickles family when they see this amusing showcard and read the gay appealing 'Kolynos' advertisements in the magazines and all the leading newspapers.

More top Radio Stars helping you to sell 'Kolynos' Dental Cream are Tommy Handley, Richard Murdoch and family, George Melachrino with his lovely wife and small daughter.

Everywhere people are asking for the fine dental cream the Radio Stars use. Cash in on this well-founded popularity. Give 'Kolynos' a good display on your counter and in your windows. Send for this and other attractive showcards of the stars and their children. They will be sent to you on request.

If you have not got your sure-to-sell 'KOLYNOS' counter display unit, send for it today. This comes FREE with an order for these minimum quantities: 9 dozen 1/3d. and 3 dozen 2/2d. 'KOLYNOS' DENTAL CREAM.

INTERNATIONAL CHEMICAL CO. LTD.

CHENIES STREET, LONDON, W.C.1

Banishes Scurf & Dandruff

PLUS TAX - ONE THIRD

New attractive
DISPLAY STANDS
supplied !

DR. HARR'S
6·8·6·B
SCURF & DANDRUFF LOTION

Leslie Marks & Company Ltd.

3/9 EARLHAM STREET, CAMBRIDGE CIRCUS
LONDON, W.C.2

invite you to visit their

EXHIBIT OF SPONGES

on

STAND 79

at the

CHEMISTS' EXHIBITION

THE CENTRAL HALL
WESTMINSTER

SEPTEMBER 20th to 24th

If you are not in possession of an Admission Pass, send us a postcard or telephone TEMple Bar 6135-6

DIUROMIL

(5/7½d. including tax)

a palatable effervescent granular preparation for the treatment of rheumatic complaints and urinary tract infections

P.A.T.A.

RALGEX

(4/4½d. including tax)

analgesic and rubefacient, a stick of solid embrocation giving rapid relief in painful rheumatic muscular and neuralgic conditions

The demand for these preparations is created by MEDICAL RECOMMENDATION. YOU TOO can recommend them with confidence

Stocked by all leading wholesalers

PHARMAX LIMITED
THE ORGAN WORKS
OLD HILL CHISLEHURST KENT

more money for you!

★

How to help *Veet's* National Advertising ring your cash register

Most of the women who look in your window are prospects for Veet. A powerful National Advertising campaign is working hard in newspapers and magazines to keep them buying Veet. It will keep them buying it *from you* if Veet is always well displayed in your window, on your counter. That is why to help you we are sending with every order for 3 dozen Veet one of these attractive sellout cartons. Put these cartons where they can't be missed and you're bound to make a steadily rising profit.

DAE HEALTH LABORATORIES, 17 BERNERS STREET, W.I

PARKAVIT

TABLETS

VITAMIN K ANALOGUE

for the relief of

CHILBLAINS

Recommended by the medical profession

Bottles of 20's (2/-)—13/6 per doz.
Bottles of 100's (7/-)—45/- per doz.

BROOK, PARKER & Co. Ltd.
Ashfield, Bradford

MORGAN'S *Pomade*

ENDS GREY HAIR

THAT'S WHY IT SELLS

The reliability of Morgan's Pomade, established over 70 years ago, brings steady business. Generous trade terms make it, and Marie Antoinette Egg Julep Shampoo Powder, worth while to stock.

Full list, wholesale prices and terms on application to: **Morgan's Pomade Co. Ltd., 1-7 Grenville Road, LONDON, N.19**

Ichthammol B.P.

with high organically combined sulphur content.

Other Asmidar Specialities include:

GLUTONINE (Asmidar)

Strychnine Gluconate — Gives prolonged action with decreased toxicity. Boxes 8 x 1 c.c. ampoules 0.002, 0.0035, 0.005 gm.

ASMIDAR ANTI-RHEUMATIC Ointment

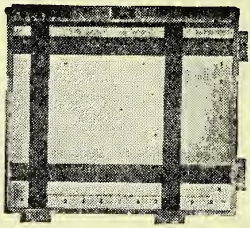
Non Greasy, Non Staining Analgesic
Size ¾ oz. Tubes.

Also—Piperazine (Asmidar) and Sulphazol Cream (Asmidar). Literature and information gladly supplied on request.

ASMIDAR LTD
16 DOUGLAS STREET, LONDON, S.W.1
Telephone: VICTORIA 5556

PHOTOGRAPHIC **GNOME** PRODUCTS LTD.

A New Masking Frame
"THE GNOME DE LUXE"
Adjustable Margin



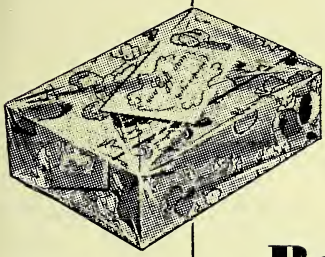
With this Masking Frame a white border from $\frac{1}{16}$ in. to 1 in. may be obtained all round the print. The four Masking Strips can all be adjusted, the border is not fixed on any side

ALL-METAL CONSTRUCTION
RETAIL PRICES

W.O.N.	Size	Price	Purchase Tax	Total
41C	8½ in. x 6½ in.	£1 18 0	16 6	£2 14 6
42C	10 in. x 8 in.	£2 4 8	19 5	£3 4 1
43C	12 in. x 10 in.	£2 15 0	£1 3 10	£3 18 10
44C	16 in. x 12 in.	£4 1 0	£1 15 1	£5 16 6

Ask your Dealer, or write direct to manufacturers for illustrated catalogue.

354, Caerphilly Road, Cardiff



Order Now . . . *and get your share of this business*

Johnson's

delightful

Baby Gift Box

Baby Lotion ☆ Baby Powder ☆ Baby Cream

These three essential Johnson products for baby skin care are now contained in a new Baby Gift Box—so gay, so colourful, so wonderfully fresh and appealing in its transparent wrapper. There is a presentation card, too!

The Gift Box will be ready to brighten your counter from September onwards — but if we may advise you—send your order direct to Johnson & Johnson as soon as you can because supplies will be limited. Demand will be lively for this Gift Box gives you an exceptional opportunity to build profitable three-in-one sales.

Retail Price
8/6d. inc. tax
(usual trade terms)

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The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2.

SEPTEMBER 18 1948

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REPRESENTATIVE required for sales of veterinary requirements to veterinary profession only in area Kent to Hampshire with adjoining counties. Knowledge of veterinary products essential. Apply Box 4/628.

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REPRESENTATIVE. An opportunity occurs for the appointment of a representative to call on chemists, grocers and similar stockists in South-West Lancashire, the Isle of Man, and Northern Ireland, selling well-known and widely advertised quality products in great public demand. Good remuneration and expenses; car provided; applicants must be prepared to live in Liverpool. First-class record of selling to the trade is required. Applications in writing, stating age, experience and salary, etc., to Box 4/494.

REPRESENTATIVE required by firm of manufacturing chemists to call upon doctors, chemists and hospitals in connection with high-class ethical pharmaceutical products. Salary, commission and expenses basis. North Warwickshire, Leicester, Nottinghamshire area. Applicants must reside on the ground. Box 4/636.

REPRESENTATIVE required by old-established and well-known manufacturer of fine chemicals to call on the manufacturing pharmaceutical trade in the Midlands, North of England and Scotland. Car can be provided. Salary and expenses. Applicants should have sound knowledge of the fine chemical trade. Write in confidence, stating age, experience and salary required. Box No. E 520, Street's, 110 Old Broad St., London, E.C.2.

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REPRESENTATIVE REQUIRED for areas Derbyshi Leicestershire, Nottinghamshire, Staffordshire, W wickshire, for reputable firm of manufactur chemists. Must be car owner. Write, giving f details to Box 4/601.

SALES MANAGER required in London by a fi of manufacturing chemists, with a large home a export trade. A man of wide experience in sa development is sought, having pharmaceuti qualifications, and capable of initiating sa schemes, controlling representatives, etc. The p is an important one, offering unlimited scope a a good salary will be paid. The successful app cant will work closely with the Managing Dir tor, relieving the latter in due course of much the work at present undertaken by him. Ple reply (in strictest confidence) giving age, full d tails of previous experience, etc., to Managi Director, Box 4/571.

SALES REPRESENTATIVE, preferably qualified, call on chemists in South England, required well-known firm of manufacturing chemists. Sala and expenses. Car an advantage. Write, givi full details, and if possible enclosing a photograp to Box 4/641.

TECHNICAL REPRESENTATIVE required with go chemical knowledge to investigate the marketi and to introduce fine chemicals for industrial pu poses. Remuneration will be by salary plus e penses. Applicants are asked to give full partic lars and salary required, in strict confidence. B No. E 521, Street's, 110 Old Broad St., E.C.2.

TRAVELLERS calling on retail chemists and able handle additional attractive line, please write B P.P. 19679, Samson Clark's, 57-61 Mortimer S London, W.1.

TRAVELLING SALESMAN (Yorkshire area) for ne line of high-quality toilet preparations and co metics. Young, energetic, and with some expe ence of the trade. Box 4/664.

TRAVELLERS WANTED. Experienced represent tives wanted for Liverpool and North Wales a Glasgow and West of Scotland by manufacture of surgical dressings, sanitary towels, and druggi sundries; to call on chemists (also drapers f sanitary towels only); connection an advantag Salary, commission and expenses. Box 4/559.

UNQUALIFIED MAN required for wholesale man facturing chemists' veterinary work in Shrewsbur Single, aged 25 to 35. Apply Box 4/630.

CANCIES for experienced representatives to call hospitals and institutions in the Lancs and ks areas and West of England-South Wales as. Must have actual road experience with a pital supplies firm. Salary, commission, ex- ses. Must reside central area. Write full de- s of experience, which will be treated in con- nce, to Hospital Sales Manager, S. Maw, Son Sons, Ltd., New Barnet, Herts.

UNG MAN required for position as salesman hotographic), preferably one with pharmaceu- l training. Write stating age, experience, ry required, Wallace Heaton, Ltd., 127 New d St., W.1.

WHOLESALE (OVERSEAS)

ERSEAS opportunity occurs for a qualified ish pharmacist as assistant to the Glaxo Lab- tories selling representative based on Cairo. plicant must be single, fluent in French, and ing to travel wherever required in the Near t, Apply first in writing, with details of eer and photograph, to Staff Manager, Glaxo oratories, Ltd., Greenford, Middlesex. The post progressive one and pens oned.

SITUATIONS WANTED

for 18 words or less, 1d. for every additional word

RETAIL (HOME)

EMISTS' ASSISTANT or dispenser; 60; London provincial experience; unqualified; state salary. . Harries, 320 Cowbridge Rd., Cardiff.

ARMACIST residing in Surrey (14 miles from ndon), with over 20 years' first-class experi- e in wholesale and retail pharmacy, desires a gressive managerial or executive position in er branch. Highest credentials. Box 4/549.

ARMACIST, 17 years' varied managerial experi- e, shortly sitting Final examination Chartered itute of Secretaries, seeks responsible position business opportunity. Box 4/626.

OCKTAKING, quiet and efficient workmanship, r 30 years' practical experience. Personal super- on. C. W. Playfoot, 8 Aylward Rd., Merton k, S.W.20 Tel. Liberty 4104

UNG COUPLE (both qualified, husband teach- with baby, would be glad to hear from Lon- pharmacist who could let rooms (in any con- on) over shop. Would do part-time duty. Box 39.

WHOLESALE

VERTISER undertakes copy-writing or any other t-time work demanding intimate knowledge of rmacy and literary ability. Expert typing ser- also available. Box 4/647.

ERGETIC YOUNG MAN (25) 8 years' experience retail pharmacy seeks position as representative Scotland (resident Edinburgh). Excellent know- e of pharmacy including medical aspect. Pre- ed for hard work. Excellent references. Box 06.

ST-CLASS REPRESENTATIVE with strong connec- retail and wholesale chemists, departmental es, drapers, desires representation sanitary els and toilet paper. Commission only. Box 38.

ST-CLASS REPRESENTATIVE, calling chemists, artmental stores, London and Middlesex, with llent connection, desires change with firm of ate. Highest references. Salary, commission, enses Box 4/579.

SHMAN (experienced representative), now resi- t England, shortly returning to Eire, requires l agencies. Box 4/554.

ARMACIST with 15 years' manufacturing and ness experience in an executive capacity seeks ointment with a manufacturing house either the technical or business side. Box 4/552.

REPRESENTATIVE covering Yorks, Durham and Lincs, with first-class connection chemists, Co-ops., stores, etc., desires position with well-known house on salary, commission and expenses basis only. Own car. Interviews preferred. Box 4/399.

REPRESENTATIVE, experienced in sales and medical propaganda, Southern Counties, would consider a reasonable proposition from sound established house. Box 4/649.

TECHNICAL REPRESENTATIVE with good chemical knowledge and managerial business experience seeks for home or abroad agency or position with well-known manufacturers of fine chemicals. Box 4/625.

UNQUALIFIED young man, 8 years' experience, seeks position in Edinburgh; wholesale or retail. Excellent references. Box 4/607.

UNQUALIFIED ASSISTANT (39), West End and all round experience available now. London. C., 44 Turneville Rd., W.14.

APPOINTMENTS

CROWN AGENTS FOR THE COLONIES

Applications from qualified candidates are invited for the following post: ASSISTANT CHIEF PHARMACIST required by Government of Federation of Malaya for Medical Department, Singapore, for initial tour of 3 years, with prospect of permanency. Salary and expatriation pay between $490 and $1,065 a month. (Malayan dollar equals 2s. 4d.). Commencing salary according to age and war service. Cost of Living Allowance between $150 and $375 a month, according to dependents. Free passages. Candidates, not over 35, must have a University degree, either B.Pharm. or B.Sc., with Ph.C. Diploma of Pharmaceutical Society in addition. Duties will include teaching in the Department of Pharmacy, College of Medicine, Singapore, assisting in the administration of the Government Medical Store and in the administration of the laws controlling the practice of Pharmacy. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4 Millbank, London, S.W.1, quoting M/N/18288/3F on both letter and envelope.

National Health Service Act, 1946.

DUDLEY, STOURBRIDGE & DISTRICT HOSPITAL GROUP

BIRMINGHAM REGION

Applications are invited for the post of full-time PHARMACIST (M.P.S.) (male or female) at Corbett Hospital, Nr. Stourbridge. Duties to commence 1st October, 1948, and will include full responsibility for dispensing of medicines and surgical stores. The salary is in accordance with the J.N.C. approved scale for Hospital Staffs. The post is subject to the provisions of the National Health Service (Superannuation) Regulations, 1947, (S.R.O., 1947, No. 1755). Applications stating age and experience, with copies of recent testimonials to be sent to H. Raymond Hurst, Secretary to the Management Committee, The Guest Hospital, Dudley.

KING'S COLLEGE HOSPITAL,

DENMARK HILL, S.E.5.

ASSISTANT PHARMACIST (registered) required. Salary and hours according to the J.N.C. scale. Applications with details of experience should be sent to The Pharmacist, at the above address.

BOTLEYS PARK HOSPITAL MANAGEMENT COMMITTEE

Registered Assistant Pharmacist for Botleys Park Hospital, Chertsey, Surrey. J.N.C. (Hospital Staffs) salary, viz., £370 inclusive; annual increments up to £450 p.a. Previous experience may determine commencing salary. Recently qualified pharmacists eligible. Whole-time, established, pensionable, subject to medical exam. Application, stating age, qualifications, experience, with copies of not more than three recent testimonials, to Physician Superintendent, Botleys Park Hospital, Chertsey, Surrey.

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST for NORTH MIDDLESEX COUNTY HOSPITAL, Edmonton, N.18. J.N.C. (Hospital Staffs) Scale. £370 to £450 inc. Similar experience may determine commencing salary. Whole time, established, pensionable, subject to medical examination. Applications, stating age, qualifications, experience, with copies of up to three recent testimonials, to MEDICAL DIRECTOR of Hospital immediately (quoting D.591 CD). No forms.

C. W. RADCLIFFE,
Clerk of the County Council.

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST required at HAREFIELD COUNTY HOSPITAL, Harefield, Middx. J.N.C. (Hosp. Staffs) salary £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Recently qualified pharmacists eligible. Whole-time, unestablished, possible establishment, subject to medical examination. Application, stating age, qualifications, experience, with copies of up to 3 recent testimonials, to MEDICAL DIRECTOR at Hospital, IMMEDIATELY (quoting E.146 CD).

REDHILL COUNTY HOSPITAL

EDGWARE, MIDDLESEX

REGISTERED ASSISTANT PHARMACIST required. J.N.C. (Hosp. Staffs) salary £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Whole-time, established, pensionable, subject to medical examination. Application, stating age, qualifications, experience, with copies of up to three recent testimonials, to Medical Director of Hospital immediately (quoting D.815 CD). No forms.

READING & DISTRICT HOSPITAL MANAGEMENT COMMITTEE ROYAL BERKSHIRE HOSPITAL, READING

Applications are invited from persons holding the Certificate of the Society of Apothecaries for the post of SECRETARY-DISPENSER. Salary in accordance with the J.N.C. Scale (£270-£320 per annum). Similar experience may determine commencing salary. Applications, stating age, qualifications and experience, with copies of recent testimonials, should be sent to the Administrative Officer.

STAINES GROUP HOSPITAL MANAGEMENT COMMITTEE

REGISTERED ASSISTANT PHARMACIST required at Ashford Hospital, Ashford, Middlesex. Salary on J.N.C. (Hosp. Staffs) scale, £370 x £15 to £450 p.a. inc. Similar experience will determine commencing salary. Non-resident, whole-time, pensionable, subject to medical examination and one month's notice. Post vacant now. Application, stating age, qualifications and experience, with copies of up to 3 recent testimonials, to Medical Director of Hospital immediately.

AGENCIES

17/6 for 36 words or less, 4d. for every additional w

AGENTS required with existing connections proven ability to sell to stores, chemists, con tioners, etc., able to take up additional good sell lines such as drugs, toilet requisites and medica dusting powders. Liberal commission. Full det to Box 4/611.

COMMISSION AGENTS required to sell to Chem and Druggists in Wales, Yorkshire and East An nationally advertised patented line, full sales a including lists of customers, provided to success applicants. Agents with proved sales records good connections should send full details of li now carried, whether car owner, and freque of calls to Box No. 254, Dorland Advertis Limited, 18-20 Regent St., London, S.W.1.

EIRE. Advertisers are desirous of appointing a distributor in Eire for their proprietary produ some well advertised. Only a firm of repute a who could devote reasonable time to the distri tion need apply. All existing accounts would handed over. New advertising campaign is ab to begin for the winter season. Write Box 4/6

REPRESENTATIVES with good connections in Lo don and Home Counties required to undert non-competitive agency with attractive commissi Write in confidence, giving full details and te tory covered. Box 4/637.

AGENCIES WANTED

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WANTED—AGENCY FOR SWITZERLAND. Swiss, present resident in England, desires to settle do in Switzerland and take over representation only first-class English firms (pharmaceuti specialities and fine chemicals) on commission ba or firm account. Twenty-five years' experience building up sales organisation and calling on me cal profession, chemists and manufacturers, e Box 4/548.

BUSINESS OPPORTUNITIES

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MANUFACTURERS of nationally advertised cosme speciality would share advertisement space a costs (currently £3/5,000 p.a.) with another man facturer of non-competing line with view to joi doubling of effective coverage. Box 4/642.

MANUFACTURING CHEMISTS have facilities a space available for the manufacture and/or pac ing of domestic, industrial or toilet products. Bo tle, powder and tube filling. Frank Macowal, Ltd 30 Loughborough St., S.E.11. Reliance 3435.

OLD-ESTABLISHED firm of manufacturers invi offers from responsible firms for packing in pap wrappers of small powders. Packing only, materials found. Further particulars, apply B 4/652.

SMALL MANUFACTURING CHEMIST making thr high-class branded medicinal products sold by ch mists in all parts of the country, one line e ported to several countries, with ideas for oth new products, wishes to join a firm who ha capital for development and who have, or wh wish to build up, an efficient sales force. Bo 4/624.

TABLETS. Manufacturing chemists have availab tableting capacity. Any type or size of table effervescent tablets a speciality. Strict control every stage of manufacture. Customers or ow materials. Box 4/610.

WHY NOT BE A SALESMAN with our prove postal training and guaranteed appointments se vice which secured 1,000 salaried sales vacanci in 1947? Previous experience unnecessary with ou 25 years' specialised experience to aid you. Sen today for free details. Wallace Attwood College Dept. 84, Attwood House, Finchley Rd., London N.W.3.

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RANCE LINE. 30 gross 1½ oz. bottles with ite caps. 20 gross 1-oz. opal jars with pink ell caps. 40 gross 2-oz. clear jars with bakeaps. 500 only fancy oval jars with bakelite 1-oz. clear squat jars, about 75 gross altor, some with metal caps, but the majority ut. Complete quantity £80 or offer. Box

SALE. All sizes of glass bottles and cosmetic Pay Bros. 28 St. James's Pl., S.W.1. Tel. nt 0338.

ESTY No. 3 heavy duty tableting machine, lete with many sized punches and dies. ine can be seen working. Nearest offer to . Write Box 4/617.

MAN labelling machine, Purdy Junior labelmachine, conveyor table 16 feet. All in per- working order with motors and starters. less steel circular tank 100 gall. on rubber s. Also two tons technical white Oil in 40 drums, 10 cwt. beeswax, bleached, B.P., . isocreme. 50 gross 4-oz. French round white bottles with black plastic caps. Offers to 4/654.

HARIN TABLETS, standard quality, limited y supply for disposal. Apply Box 4/592.

HARIN TABLETS. Two unopened tins 000 in each) standard British-made saccharin s. Quality guaranteed. Offered at £40 each, paid. If buyer takes both, a new 100 countnachine (cost £5) included. Box 4/546.

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NICAL WHITE OIL. Surplus stock available ndard price. Quantity 25 x 40-gallon drums. ls from Mr. F. W. Kempton. Telephone ria 8422.

GLYCERINE and stearic acid for disposal. Offers Box 4/545.

TO CLEAR. 5 gross 10-oz., 25 gross 16-oz. cylindricals. 1,500 gross 12-oz. bottle-shaped tins in small or large lots. Cheap. Packed in cases of 2 doz. L.L.N. & Co., Ltd., 216 Anlaby Rd., Hull.

100 GROSS flat medical 6-oz. bottles with screw caps, new, 24s. per gross. New cartons with divisions for 2 dozen bottles, 1s. each. Coloured transparent paper, 10 in. to 20 in., blue, chocolate, pink, 3s. 11d. per lb. Box 4/620.

750 IRON DRUMS, 23 in. diameter, 37½ in. overall length, two pressed rolling hoops with 2 in. gas Trisure bung, tare, 59 lb., from galvanised sheets, varnished inside, content 50 to 55 gallons at 28s., each free delivered. Write Sigerist, 44-46 Leadenhall St., London, E.C.3.

WANTED

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GLYCERINE and triple pressed stearic acid wanted in small or large quantities. Box 4/543.

SACCHARIN TABLETS required in bulk. Standard quality. Regular weekly quantity for pre-packing. Box 4/662.

STEARIC ACID, triple pressed, required in large quantities. Box 4/2.

TUBE FILLING. Small machine, also sealing and crimping machines. Second hand. Write, giving lowest price. Box 4/657.

WANTED. 1/2 tons double or triple pressed stearic acid, M.P., 124/132, not for re-sale. Write Box 4/632.

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CARDBOARD CONTAINERS. 250 gross strong, round 1¾" by 1¾" with metal base and metal lids, packed in parcels of 2 gross, lids in teachests, 2/- per gross the lot, ex warehouse, W.1 district. Box 4/618.

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00 pages of formulæ for two guineas (postage extra)

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Practically new shop fittings, showcases, glass counters, chrome stands, office furniture, typewriters, 300 yds. matting, fancy goods, etc.
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LARGE FREEHOLD FACTORY, comprising appr 8,000 sq. ft., with additional land for extensio for disposal. The premises are situated appr 30 miles from London on main railway line. Lab is available in the area. The price asked is £15, but a near offer might be accepted. Please w in first instance to Box 4/616.

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FACTORY SPACE available in N.W. London. Bu from London pass door. 4,000 sq. ft. Rent £ per annum. 21 years' lease. Premium asked £1, or near. Apply Orridge & Co., 184 Strand, W.C **LARGE FACTORY TO LET** to suitable tenants o long lease. The premises are approx. 30 miles fr London with very good accessibility to Lond Labour is available in the area. The rental as is £850 per year. Only genuine enquiries, ple Box 4/615.

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The CHEMIST AND DRUGGIST
SEPTEMBER 18, 1948

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